CONSTRUCTION NEWS

The Construction Barometer

Decrease in Contract Volume—Gain in Public Work Now Out For Bids—Lumber Declines

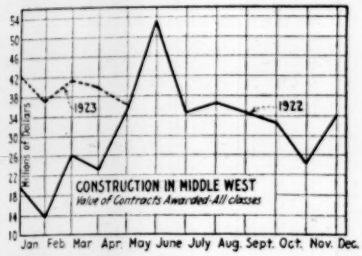
CONTRACT volume fell off 14 per cent in May and was 23 per cent less than for May, 1922. The only gains were in the South and Far West. The charts show the trends.

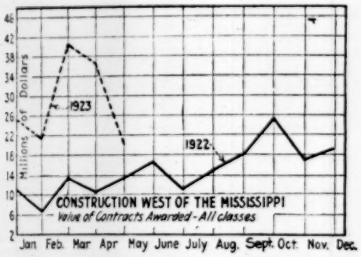
Value of large contracts fell off nearly 14 per cent during the week ending June 14, but gained 26 per cent over the lettings for the week of May 31.

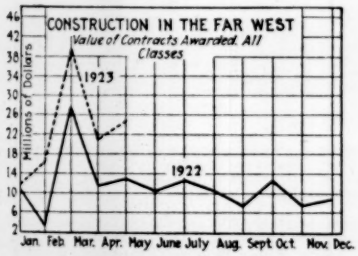
Public building awards, however, increased 166 per cent during the week ending June 14, while private commercial buildings dropped 9 per cent.

A slight increase in large public jobs now out for bid, developed during the week of June 14, compared with a falling off in buildings and private work.

The only change in basic materials prices occurred in pine lumber, which dropped $1 per M ft. in New York, during the current week.


CONSTRUCTION IN MIDDLE WEST
Value of Contracts Awarded-All classes
1923
1922
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION WEST OF THE MISSISSIPPI
Value of Contracts Awarded-All classes
1923
1922
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION IN THE FAR WEST
Value of Contracts Awarded. All Classes
1923
1922
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

E. N.-R. Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

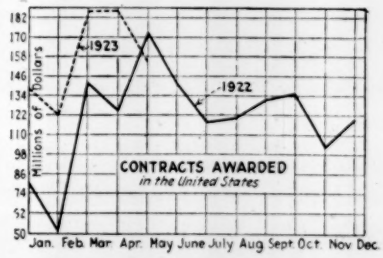
Week Ending	Public Work	Private Work	Total Contracts
May 31	$16,126,000	$13,565,000	$29,691,000
June 7	25,144,000	18,704,000	43,848,000
June 14	23,681,000	14,052,000	37,733,000
3 weeks	$64,951,000	$46,321,000	$111,272,000

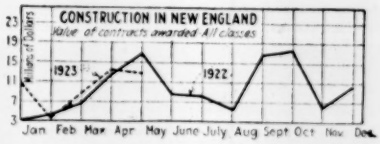
LARGE BUILDING CONTRACTS—NUMBER AND VALUE

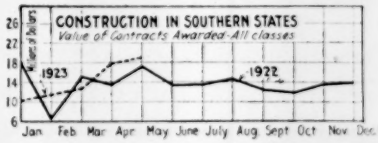
Week Ending	Public No.	Public Work	Private No.	Private Work
May 31	11	$2,555,000	33	8,528,000
June 7	13	2,558,000	37	11,303,000
June 14	11	7,593,000	36	9,742,000
3 weeks	35	$12,706,000	106	$29,573,000

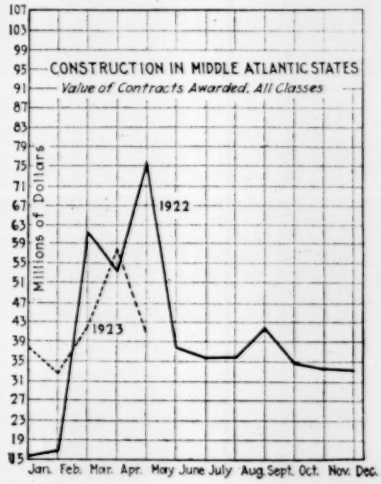
PINE LOWER—OTHER BASIC PRICES UNCHANGED IN THREE WEEKS

	Quoted on June 21, at	Price Was	On
Structurals, Pittsburgh, 100 lb.	$2.50 @ 2.60	$2.50 @ 2.65	May 17
Cement, Chi., netbbl.	2.20	2.05	Feb. 1
Pine, N. Y., M ft.	59.00	60.00	June 14
Fir, San Fran., M ft.	41.00	39.00	Apr. 5
Common labor, hr.	0.53	0.51	May 31




CONSTRUCTION IN NEW ENGLAND
Value of contracts awarded-All classes
1923
1922
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION IN SOUTHERN STATES
Value of Contracts Awarded-All classes
1923
1922
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION IN MIDDLE ATLANTIC STATES
Value of Contracts Awarded. All Classes
1922
1923
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
June 25	Duluth, Minn.	June 7
June 25	Pennington, N. J.	June 14
June 25	Bismarck, N. D.	June 14
June 25	Lemmon, S. D.	June 21
June 26	Gridley, Ill.	June 14
June 27	Davenport, Wash.	May 31
June 27	Joliet, Ill.	June 21
June 27	Binghamton, N. Y.	June 21
June 27	Cleveland, O.	June 21
June 28	Du Bois, Pa.	June 14
June 29	Hutchinson, Minn.	June 21
June 30	Baird, Tex.	June 21
June 30	Esmond, S. D.	June 14
June 30	Columbus, O.	June 21
July 3	Ft. Worth, Tex.	June 14
July 3	Ft. Worth, Tex.	June 21
July 3	Madisonville, Tenn.	June 21
July 17	Deland, Fla. Adv. June 21.	June 21

SEWERS

Bids Close		See Eng. News-Record
June 25	Silverton, Ore.	June 14
June 25	Portland, Me.	June 14
June 25	Idlewood (Cleveland Heights P. O.), O.	June 14
June 26	Springwells, Mich.	June 21
June 26	Long Island City, N. Y.	June 21
June 26	University (St. Louis P. O.) Mo.	June 21
June 27	Brooklyn, N. Y.	June 21
June 27	Cleveland, O.	June 21
June 28	Bexley (Columbus P. O.) O.	June 21
June 29	Emmons, Minn.	June 14
June 29	Wash., D. C.	June 14
July 2	Akron, O.	June 21
July 2	Lewistown, Pa.	June 21
July 2	Los Angeles, Calif.	June 21
July 3	St. Louis, Mo.	June 14
July 3	Newton, N. J. Adv. June 21.	June 21
July 6	Grove City, Pa. Adv. June 21.	June 21
July 9	Los Angeles, Calif.	June 21
July 10	Springwells, Mich. Adv. June 21.	June 21

BRIDGES

Bids Close		See Eng. News-Record
June 25	Taunton, Mass.	June 21
June 26	Maryland Adv. June 14 and 21.	June 21
June 27	Lowell, Mass.	June 14
June 27	North Carolina	June 21
June 28	Chicago, Ill.	June 14
June 28	Sulphur Springs, Fla.	June 21
June 29	Reading, Pa. Adv. June 7 to 21.	June 7
June 29	Salem, Mass. Adv. June 14 and 21.	June 14
June 29	Haverhill, Mass.	June 21
July 2	California	June 14
July 3	Alabama	June 7
July 5	Englishtown, N. J. Adv. June 21.	June 21
July 6	Alabama	June 21
July 6	Waycross, Ga.	June 21
July 9	Akron, O. Adv. June 21.	June 21
July 31	La Center, Wash.	May 3
Nov. 30	Sydney, Australia	Apr. 19

DAMS

Bids Close		See Eng. News-Record
July 2	Beacon, N. Y. Adv. June 21.	June 21

Bids Close		See Eng. News-Record

EXCAVATION, DRAINAGE, IRRIGATION

June 26	Savanna, Ill.	June 7
June 26	New York, N. Y.	June 21
June 30	Ontario	June 14
July 10	Ottumwa, Ia. Adv. June 7 to 21.	June 14
July 17	Dunkirk, N. Y. Adv. June 21.	June 21

STREETS AND ROADS

June 22	Rhode Island Adv. June 14 and 21.	June 14
June 22	Trenton, N. J Adv. June 14 and 21.	June 14
June 22	Ohio	June 21
June 25	Thomasville, Ga.	June 14
June 25	Central Falls, R. I.	June 14
June 25	Augusta, Ga.	June 14
June 25	Valley, Neb.	June 14
June 25	Louisiana	June 21
June 25	Utah	June 21
June 26	Utah	June 21
June 26	Ottawa, Ont.	June 21
June 26	Milwaukee, Wis.	June 21
June 26	Colorado, Tex.	June 21
June 26	Eagle Grove, Ia.	June 21
June 26	South Dakota	June 21
June 26	St. Louis, Mo.	May 31
June 26	Alabama	June 7
June 26	Trenton, N. J.	June 7
June 26	Garfield Heights (Bedford P. O.), O.	June 14
June 26	Michigan	June 14
June 26	Westwood, N. J.	June 21
June 26	Columbus, O.	June 21
June 26	Crosby, N. D.	June 21
June 26	Indiana	June 21
June 26	Iowa City, Ia.	June 21
June 26	St. George, N. Y.	June 21
June 26	Wisconsin	June 21
June 27	Michigan	June 14
June 27	Delaware	June 14
June 27	North Carolina	June 14
June 27	Newton, N. J.	June 14
June 27	Nevada	June 21
June 27	Ebensburg, Pa.	June 21
June 27	Brooklyn, N. Y.	June 21
June 27	Bennettsville, S. C.	June 21
June 27	Long Island City, N. Y.	June 21
June 27	Coleman, Tex.	June 21
June 27	Wisconsin	June 21
June 28	Connecticut Adv. June 21.	June 21
June 28	Michigan	June 14
June 28	Ohio	June 21
June 28	Henderson, N. C. Adv. June 21.	June 21
June 29	Mount Holly, N. J.	June 14
June 29	Michigan	June 14
June 29	Henderson, Ky.	June 7
June 29	Emmons, Minn.	June 14
June 29	Mantorville, Minn.	June 21
June 29	Cincinnati, O.	June 21
June 29	Sanderson, Tex.	June 21
June 29	Eastland, Tex.	June 21
June 29	St. George, N. Y.	June 21
June 30	Kansas City, Kan.	June 14
June 30	Newport, Ark.	June 21
June 30	Paris, Tex.	June 21
June 30	Selma, Ala.	June 21
July 2	California	June 14
July 2	St. Paul, Minn.	June 14
July 2	North Tarrytown (Tarrytown P. O.), N. Y. Adv. June 21.	June 21
July 2	Martinez, Calif.	June 21
July 2	Ebensburg, Pa.	June 21
July 2	Utah	June 21
July 3	University (St. Louis P. O.), Mo.	June 21
July 3	Alabama	June 7
July 3	Akron, O.	June 14
July 3	Trenton, N. J.	June 21
July 5	Maplewood (St. Louis P. O.), Mo.	June 14
July 5	Abbeville, La.	June 21
July 5	Lincoln, Neb.	June 21
July 6	Mannington, W. Va.	June 21
July 6	Akron, O.	June 21
July 6	Virginia Adv. June 21.	June 21
July 6	Lancaster, S. C.	June 21
July 6	Greensburg, Pa.	June 14
July 6	Alabama	June 21
July 9	California	June 21
July 10	Fairmont, W. Va.	June 21
July 10	St. Albans, W. Va.	June 21
July 10	Nashville, Tenn. Adv. June 21.	June 21
July 12	Faribault, Minn.	June 21
July 17	St. Louis, Mo.	June 21

INDUSTRIAL WORK

June 27	Orient, O.	June 7
June 29	Jefferson City, Mo.	June 21

BUILDINGS

June 22	New York, N. Y.	June 14
June 25	Grand Rapids, Mich.	June 7
June 25	Houston, Tex.	June 14
June 26	Birmingham, Ala.	June 7
June 26	Asbury Park, N. J.	June 21
June 26	Nashville, Tenn.	June 21
June 27	Gallipolis, O.	June 7
June 27	Oelwein, Ia.	June 14
June 28	Grand Rapids, Mich.	June 7
June 29	Louisville, Ky.	June 14
June 29	Verona, Wis.	June 14
June 29	Flandreau, S. D.	June 21
June 30	Louisville, Ky.	June 7
June 30	Alexandria, La.	June 21
June 30	Beaverdale, Pa.	June 21
June 30	Saratoga Springs, N. Y. Adv. June 14 and 21.	June 21
July 1	Athens, O.	May 24
July 2	Columbus, O.	June 14
July 2	La Crosse, Wis.	June 21
July 3	Kitchener, Ont.	June 21
July 3	Bergenfield, N. J.	June 14
July 6	Virginia, Minn.	June 7
July 9	Maplewood, N. J.	June 21
July 9	Easton, Pa.	June 21
July 15	Astoria, Ore.	June 7
July 15	Knoxville, Tenn.	June 21
July 24	Conrad, Ia.	June 21
Aug. 1	Jackson, Miss.	June 21

FEDERAL GOVERNMENT WORK

June 25	Dredging—Detroit, Mich. Adv. May 31 to June 21.	May 31
June 25	Dredging, etc. — New York, N. Y. Adv. May 31 to June 21.	May 31
June 25	Refrigerating Machinery — Pearl Harbor, H. T.	May 31
June 25	Extension—Niagara Falls, N. Y.	June 7
June 25	Extension — Anniston, Ala.	June 7
June 25	Building—Perryville, Md.	June 14
June 25	Lighting System—New York, N. Y.	June 21
June 25	Engine Testing Laboratory — Phila., Pa.	June 21
June 27	Sewer Extension — Chicago, Ill.	June 7
June 27	Bridge—Alaska	June 21
June 27	Wire, etc.—New Orleans, La.	June 21
June 28	Road—Montana	June 14
July 3	Remodeling — Frankfort, Ky.	June 14
July 5	Pumps—New Orleans, La.	June 14
July 5	Extension — New York, N. Y. Adv. June 21.	June 21
July 9	Steps—Denver, Colo.	June 14
July 9	Dredging — Wilmington, Del. Adv. June 14 and 21.	June 14
July 10	Conveyor—Memphis, Tenn. Adv. June 21.	June 21
July 18	Extension—Pearl Harbor, H. T.	June 21
July 18	Fire Protection System — Pearl Harbor, H. T.	May 31
July 18	Storage Facilities — Pearl Harbor, H. T.	June 7
July 19	Tanks—Memphis, Tenn. Adv. June 21.	June 21
July 19	Dredging—New Orleans, La. Adv. June 21.	June 21
July 20	Dredging—Galveston, Tex. Adv. June 21.	June 21

MISCELLANEOUS

June 22	Asphalt Binder, etc.—New York, N. Y.	June 14
June 25	Dock Front, etc.—Conneaut Harbor (Conneaut P. O.), O.	June 7
June 25	Heating and Ventilating Apparatus—Cincinnati, O.	June 14
June 25	Subway—Ontario	June 14
June 25	Pig Lead—St. Paul, Minn.	June 21
June 26	Subway—Phila., Pa.	May 31
June 26	Tunnel—New York, N. Y. Adv. May 31 to June 21.	June 7
June 27	Power Equipment — Jamestown, N. D.	June 14
June 27	Fan Houses and Stack—Pittsburgh, Pa.	June 21
June 27	Completion of Pier, etc. — Phila., Pa. Adv. June 21.	June 21
June 28	Tower—Arlington (Boston P. O.), Mass.	June 21
June 29	Steam Heating Plant—Wautoma, Wis.	May 31
July 2	Sea Wall — Vicksburg, Miss. Adv. June 7 and 21.	June 7
July 3	Stone Crusher — Trenton, N. J. Adv. June 21.	June 21
July 5	Structural Steel Framing, etc. —New Orleans, La. Adv. June 21.	June 21
Aug. 31	Cable and Accessories — Melbourne, Australia Adv. June 7 and 21.	June 21
Feb. 28	Headworks — Wellington, New Zealand	May 24

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Ky., Owensboro — Plans extensions and improvements to water works system, to supply outlying dists. $100,000. Election in November to vote on bonds. J. H. Hickman, mayor.

O., Columbus—See "Streets and Roads."

O., Shaker Heights (Cleveland P. O.)—See "Streets and Roads."

Ill., Springfield — June 26 to vote on $350,000 bonds for waterworks, incl. high and low service pumps, softening and iron removal plants, basins, filters, etc. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted May 18.

Wis., Cedarburg—Making plans laying 2,000 ft. 4 in. c.i. main and 2,500 ft. 4-8 in. vitr. sewers. $15,000. W. G. Kirchoffer, Dean Bldg., Madison, engr.

Wis., Janesville—Making plans 5-16 in. rein.-con. mains in Augusta, Cherry, Eastern, Sharon, Logan, Pleasant, Pearl, Chestnut, Forest Park Blvd. Sts. $20,000. C. V. Kerch, City Hall, engr.

Wis., Hustisford—Making plans waterworks system. $20,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs.

Wis., Osseo—Making plans waterworks system. $18,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs.

Wis., Watertown—Water Dept. making plans drilling and cleaning old well for increasing water supply, also installing new pumping equipment and air compressor. $25,000. W. G. Kirchoffer, Dean Bldg., Madison, engr.

Ia., Washington — City retained A. L. Mullergren, engr., 555 Gates Bldg., Kansas City, Mo., to prepare plans for complete water pumping plant, additional wells, elevated tank, etc. $75,000. J. J. Kellogg, clk.

Neb., Ft. Calhoun—Election June 29 to vote on $16,000 bonds for waterworks improvements. Prince & Nixon, Peters Trust Co. Bldg., Omaha, engrs.

S. D., Watertown—Utilities Comn. rejected bids May 29, for pumps and equipment for filtration plant. Noted May 17.

Mo., Kahoka—July 10, to vote on $15,000 bonds for waterworks system. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, engrs.

Ark., Imboden—C. G. Buchanan and G. G. Dent soon let contract distribution system and pumping plant, 7,000 ft. 4 in. c.i. pipe, centrifugal pump and engine. $25,000. C. G. Buchanan, Morrilton, engr.

Ark., Paragould — Plans extensive improvements to waterworks system, new pumps, concrete reservoir and pipe work.

Tex., Sanger—July 7, to vote on $90,000 bonds complete waterworks and sewer systems. E. L. Dalton, 1915½ Main St., Dallas, engr.

Calif., Long Beach—City soon takes bids concrete mains to be ordered from time to time, first contract to incl. several miles of 6, 8, 10 and 30 in. pipe. C. H. Windham, city mgr.

Calif., Upland—City plans to vote on approximately $200,000 bonds to purchase and improve present water system.

Que., Three Rivers—Plans filtration plant. $200,000. C. Gelinas, city engr.

Que., Verdun—Plans 2,250 ft. main, 16 in., Rielle Ave. $25,000. C. Johnston, city engr.

Ont., Alsa Craig—Plans waterworks system, incl. pumps, mains, hydrants, reservoir, etc. $30,000. Engineer not selected.

Ont., Thornbury—Having plans prepared waterworks system, incl. pumphouse, mains, hydrants, reservoir or tank. $30,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Port Colborne — Plans waterworks system incl. filtration and pumping plants. $80,000. I. H. White, clk. Engineer not selected.

BIDS DESIRED

N. Y., Binghamton — June 27, by Bd. Contr. & Supply, 3,000 lin.ft. 6 in. c.i. pipe, also mains in Leroy, Evans, Frederick, De Russey and Bond Sts., Howard, Highland and Woodland Aves. W. E. Weller, city engr. Noted Mar. 15.

Fla., Deland — July 17, by Bd. Bond Trustees, waterworks, sanitary and storm sewer, and street improvements. J. B. McCrary Eng. Corp., Atlanta, Ga., engrs.; adv. this issue.

Tenn., Madisonville—July 3, small concrete dam and embankment, concrete and

Waterworks (Continued)

brick coagulation basin combined with concrete and brick pump and filter house, complete filter equipment for single unit, 4 centrifugal pumps, 2 electric motors (automatic control), 2 gasoline engines, with all piping, wiring, etc., complete distribution system with 2, 4 and 6 in. mains with valves and hydrants, 75,000 gal. hemispherical bottom steel tank with tower, total height 120 ft. Ambler Eng. Co., 610 Travelers Bldg., Richmond, Va., engrs.

O., Cleveland—June 27, by Cuyahoga Co., 5,000 ft. 6-12 in. c.i. mains. To exceed $25,000. R. F. MacDowell, Court House, engr.

O., Columbus—June 30, by R. W. Smith, clk. Franklin Co. 12,003 ft. 6 in. c.i. mains in Sewer Dist. Marion 2, Contrs. 17 and 23.

O., Columbus—See "Streets and Roads."

Ill., Joliet—June 27, extension to mains. $26,000. A. S. Calkins, Joliet Natl. Bank Bldg., city engr. Noted May 10.

Minn., Hutchinson—June 29, by J. Mikulecky, city clk., 16 in. drilled well about 180 ft. deep, one 300 g.p.m. centrifugal service pump, two 500 g.p.m. centrifugal booster pumps, one 100,000 gal. steel tank on 100 ft. tower. $15,000. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs.

S. D., Lemmon—June 25, by R. M. Watson, city aud., 4,500 lin.ft. 4 and 8 in. mains, 24 x 35 ft. steel standpipe, deep well, pump and pumping equipment. $25,000. C. L. Pillsbury Co., 1200 2nd Ave. S, Minneapolis, Minn., engr.

Tex., Baird—June 30, by J. I. McWharter, mayor, 1,000 ft. tunnel, 3½ x 4 ft., 30 ft. underground with 6 in. dry well and 6 in. concrete cover, 10,000 ft. water pipe, fire hydrants, digging and walling large storage well, etc. C. E. Walker, city secy.

Tex., Ft. Worth—July 3, by City Com. waterworks system for Polytechnic Heights. $250,000. D. L. Lewis, city engr. John B. Hawley, Cotton Exch., consult. engr. Noted June 14.

BIDS RECEIVED

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, June 15, mains in East New York Sect., here, from Beaver Eng. Co., 57 Chambers St., New York, $38,000. Noted June 7.

N. Y., New York—See "Sewers."

N. Y., New York—Park Dept., Municipal Bldg., completing pump house, sump pit and septic tank, in Pelham Bay Park, Bronx Boro, from Sloane-Dickinson Corp., $28,550.

Mich., Detroit—Pumping station Pleasant Ave., rein.-con. pump pit, 60 x 120 ft., 40 ft. deep, suction well with brick superstructure 53 x 131 ft., 39 ft. high, steel roof trusses and columns, from Natl. Constr. Co., 1031 Dime Bank Bldg., $177,700. Noted May 10.

CONTRACTS AWARDED

N. Y., Johnson City—Water Bd. will extend water system 7,000 lin.ft., by day labor under supervision of A. Merrill, supt. To exceed $25,000.

Ill., Dixon—Illinois Central R.R., 135 East 11th Pl., Chicago, water treating plant, here, to J. E. Nelson & Sons, 3240 South Michigan Ave., Chicago. Cost exceeds $25,000.

Wis., Milwaukee—Gate house and laying distribution system in front of Riverside Pumping station, from Newton Eng. Co., 185 Mason St., $69,300. Noted June 7.

Wis., Sharon — Drilling and cleaning wells, etc., to W. L. Thorne Co., Des Plaines, Ill.; 2 air lift pumps, to Wisconsin Fdry. & Machine Co., 623 East Main St., Madison. Engrs. est. $15,000.

Kan., Gaylord—Waterworks system, to E. K. Ladd, Kansas City, Mo., $19,710; steel tank and tower, to Chicago Bridge & Iron Co., 608 South Dearborn St., Chicago, $7,950.

Kan., Horton — Waterworks improvements, Sects. 1, 2, 3 and 4, to Ziegler & Dalton, Junction City; c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., 604 Interstate Bldg., Kansas City, Mo., on basis of De Levaud pipe $6,412. Noted May 10.

Kan., Smith Center—Motor driven centrifugal pumps also engine driven centrifugal pump, (pump only), to Reeves & Skinner Mchy. Co., 1105 Waldheim Bldg., Kansas City, Mo., $1,095 and $1,260 respectively; deep well triplex pumps also gasoline engine driven centrifugal pump, (pump only), to Terry, Cowan & Smith, 1733 Walnut St., Kansas City, Mo.

S. D., Watertown—Utilities Comn., concrete and brick filtration plant, to Watertown Cement Products Co., Watertown, $36,214; sea wall, to F. W. Schreiber, Watertown, $8,000. Noted May 17.

Calif., Delano—Extensions to municipal water system, to E. W. Redman, Box 99-R. D., Fresno, $29,413. Noted May 31.

Sewers

PROPOSED WORK

N. Y., Glens Falls—Voted $75,000 bonds enlarging certain mains and feeders of sewerage system in Glen, Grove and Sherman Aves., etc. L. G. Boynton, city clk. Noted May 24.

Ala., Huntsville—Merrimack Mfg. Co. will construct sewers, etc., in all streets in Mill Village, a cotton mill suburb of Huntsville, by day labor. $50,000.

O., Columbus—See "Streets and Roads."

O., Shaker Heights (Cleveland P. O.)—See "Streets and Roads."

Wis., Athens—Making plans sewerage system and disposal plant, $80,000. W. G. Kirchoffer, Dean Blk., Madison, engr.

Wis., Birnamwood — Making surveys for sewerage system and sewage disposal plant. $30,000. W. G. Kirchoffer, Dean Blk., Madison, engr.

Wis., Cedarburg—See "Waterworks."

Wis., Hustisford—Making plans sanitary sewerage system and disposal plant, $30,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs.

Wis., Osseo—Making plans sanitary sewerage system and disposal plant. $30,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs.

Wis., Thorp—Engineer measuring flow of sewage and will prepare plans for concrete tank, sludge aeration and circulation type sewage disposal. $25,000. W. G. Kirchoffer, Dean Bldg., Madison, engr.

Ia., Ottumwa—Making plans 1.5 mi. 10-18 in vitr. clay sewers in Dist. 6. $30,000. J. T. Brady, city engr.

Minn., LeSueur Center — Having plans prepared sanitary sewerage system, settling tank, etc., $44,000; storm sewers, $12,772. L. P. Wolff, 100 Guardian Life Bldg., St. Paul, engr.

Minn., St. Paul—July 16, to vote on $3,000,000 bonds for sewers. G. M. Shepard, city engr.

Kan., Russell—Had plans prepared sanitary sewers and disposal plant. $75,000. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs.

Wyo., Sheridan—See "Streets and Roads."

Mo., Edina—Making preliminary plans sanitary sewerage system. $45,000. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, engrs.

Mo., Kahoka—July 10, to vote on $60,000 bonds for sewers and $18,000 bonds for paving. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, engrs.

Mo., Salisbury—Making plans sanitary sewers. $50,000 bonds voted. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, engrs.

Mo., St. Louis—See "Bridges."

Tex., Sanger—See" Waterworks."

Wash., Seattle—Bd. Pub. Wks. received no bids June 8, sewers in Brandon Ave., et al. $57,465. Will readvertise. J. D. Blackwell, city engr. Noted May 24.

Calif., San Francisco—See "Streets and Roads."

Calif., San Jose—Having preliminary surveys made sewer improvements and extensions. To exceed $25,000. W. Popp, city engr.

Ont., Ford—City Council plans sewerage system for Pillete Rd. Dist. $62,000. J. F. Foster, clk.

Que., Montreal—Plans 2,742 ft. of 2 x 3 brick sewer in Kelly St. $31,434. E. Fuser, supt. sewer dept.

BIDS DESIRED

N. Y., Brooklyn—June 27, by E. Riegelmann, boro pres., Boro Hall, sewer in Sedgwick Pl., Lake and 54th Sts.

N. Y., Long Island City — June 26, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., storm sewer in 32d Ave. (Myrtle Ave.) and 12th Ave.

N. J., Newton—July 3, by Water & Sewer Comrs., installing alternating air lock siphons in East Clinton St. sewage disposal plant. E. B. Harrison, clk.; adv. this issue.

Pa., Grove City—July 6 construction and incidental work on sewage treatment plant. F. P. Graham, boro. engr. Banks & Craig, Telegraph Bldg., Harrisburg, consult. engrs.; adv. this issue.

Pa., Lewistown—July 2, for 1,500 ft. 8 in. and 1,200 ft. 15 in. vitr. sewer in Wayne and South Grand Sts. $25,000. Banks & Craig, Telegraph Bldg., Harrisburg, engrs. Noted Mar. 1.

Fla., Deland—See "Waterworks."

O., Akron—July 2, by W. F. Peters, dir. Pub. Serv., 3,740 ft. 8-24 in. vitr. clay and 790 lin.ft. 30 and 39 in. brick or segmental block sewer in Aqueduct and Peckham Sts., $28,000; 2,115 ft. 12-24 in. vitr. clay and 1,595 ft. 30-54 in. segmental block or brick sewer in West Market St., $59,935; 3,415 ft. 8-20 in. vitr. clay and 1,425 ft. 30 and 48 in. segmental block or brick sewer in Palisades Dr., North Main and Hye Sts., $42,200. J. E. Root, Delaware Bldg., engr.

O., Bexley (Columbus P. O.)—June 28, by S. W. Roderick, village clk., 5,080 ft. 12-36 in. vitr. concrete or segmental block sewer in Astor Ave., Mound and Charles Sts. $31,000. Jennings-Lawrence Co., 505 Hartman Bldg., Columbus, engrs.

O., Cleveland—June 27, by Cuyahoga Co., 4,000 ft. 27 x 23 in. egg shape sewer in Ridge Rd. Impvt. 20, Sect. C of Co. Sewer Dist. 1. R. F. MacDowell, Court House, engr.

O., Columbus—See "Streets and Roads."

Mich., Springwells—June 26, by E. P. Esper, village clk., construction special assessment lateral sewers, Dists. 2 to 8 inclusive. A. Roth, village engr.

Mich., Springwells—July 10, by B. P. Esper, village clk., lateral sewers in special assessment Dists. 9 to 13 inclusive; adv. this issue.

Mo., University (St. Louis P. O.)—June 26, by E. B. Colby, city clk., 5,086 ft. 12-36 in. vitr. clay sewers in Ferguson Ave. Joint Sewer Dist., Sewer Dist. 19 and River Des Peres General Sewer. $34,000. W. A. Heimbucher, City Hall, engr.

Ark., Newport—See "Streets and Roads."

Calif., Los Angeles—July 2, by Bd. Pub. Wks., furnishing materials for ocean end of outfall sewer, alternate bids on rein.-con. and c.i. pipe, delivered f.o.b. cars Hyperion, 429 twelve ft. lengths, 7 ft. interior diameter, 44 twelve ft. lengths, 5 ft. interior diameter, 2 twelve ft. lengths 5 ft. interior diameter with double spigot ends, 1 double 84 x 60 x 60 in. opposite wye branch with 3 valves, 2 standard base 5 ft. diameter elbows with bell ends and horizontal arms.

Calif., Los Angeles—July 9, by Bd. Pub. Wks., sewerage system to connect West Los Angeles Dist. with city's main outfall sewer, using (1) Ferguson segmental block (2) brick-concrete (3) pre-cast concrete, vitr. lining, Sect. 10, involves 7,500 lin.ft pipe, Sect. 11, 3,322 lin.ft. 6 ft. 3 in. and 1,808 lin.ft. 7 ft. 6 in. pipe, Sect. 12, 2,995 lin.ft. 5 ft. 3 in. and 2,384 lin.ft. 6 ft. 3 in. pipe, etc., Sect. 13, 3,190 lin.ft. 4 ft. 9 in., 3,209 lin.ft. 5 ft. 3 in. and 3,402 lin.ft. 6 ft. 3 in. pipe, Sect. 14, 8,906 lin.ft. 6 ft. 3 in. pipe, etc. Noted June 14.

Calif., Los Angeles—July 9, by Bd. Pub. Wks., 26,000,000 common brick and 16,000,000 vitr. brick for outfall sewer to be constructed under $12,000,000 sewer bond issue.

BIDS RECEIVED

N. Y., New York—Dept. Parks, Municipal Bldg., completing sewerage drainage and water supply systems in connection with construction of Rice Memorial in Pelham Bay Park, Bronx Boro, from Melrose Constr. Co., 103 East 125th St., $84,000.

O., Cleveland Heights (Warrensville, P. O.)—For 10,700 ft. 8-30 in. vitr. tile sewer in Silsby Rd., from A. Marra, Ulmer Bldg., Cleveland, $31,589; 10,500 ft. 12-24 in. vitr. tile sewer in Washington Blvd., from Consolo & Palermo, Benham Ave., Cleveland, $28,592; 2,745 ft. 36, 42 and 48 ft. segmental block and 6,070 ft. 8-18 in. vitr. tile sewer in Taylor Rd., from N. Carroccio, $40,049. Noted May 31.

O., Maple Heights (Bedford P. O.)—For 3,120 ft. vitr. tile sewer in Dunham Rd., from B. J. Whittaker, 208 Columbia Bldg., Cleveland, $26,900; 3,138 ft. 16 in. vitr. tile sewer in Granger Rd. and Maple Ave., from W. McDowell & Son, 10319 Miles Ave., Cleveland, $37,700.

Calif., Whittier — Constructing outfall sewer, from P. Barnett, 630 East Washington St., Orange, $28,514; furnishing pipe from Bent Concrete Pipe Co., Security Bldg., Los Angeles, $16,618; furnishing, laying and trenching from H. A. Hanawalt, L. Verne, using vitr. pipe $45,849, concrete pipe $43,044. Noted May 24.

CONTRACTS AWARDED

Conn., Hartford—For 3,206 ft. 24-45 in. rein.-con. pipe for New Britain Ave. and Ward Pl., to Lock Joint Pipe Co., 165 Bway., New York City, $11,209; laying 2,000 ft. pipe in Ward Pl. and 2,000 ft. in New Britain Ave., to Oneil Bros., 983 Main St., $9,216 and $19,101 respectively. Noted June 7.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in Foster Ave., to Seaside Contg. Co., 193 Beach 108th St., Rockaway Beach, $21,265. Noted June 14.

Sewers (Continued)

N. Y., New York Mills—Sanitary sewerage system, to D. Perritano, 1832 Rutger St., Utica, $86,500. Noted May 17.

N. J., East Orange — Mayor and City Council, 7,500 ft. 24 and 30 in. sewer in William St., to C. Ippolito, 252 Main St., $104,473. Engrs. est. $110,000. Noted June 7.

N. J., Hightstown—Alterations and additions to sewage disposal plant, to Hennessey & Sowell, Collingswood, $51,540. Noted June 14.

N. J., Long Branch — Sewerage system with sedementation tank in northwesterly section of city, to H. L. Harrison, 31 Clinton St., Newark, $47,000. Noted May 24.

O., Dayton — Montgomery Co. vitr. sewers in Belmont Sanitary Sewer Dist. 1, Sect. A, to M. J. Connelly, Cincinnati, $77,822, Sect. B, to J. Wroe, 54 Davies St., $117,432, Sect. C, to C. F. Smith, 54 Davies St., $115,914; in Overlook Sanitary Sewer Dist. 1, Sects. A and B, to C. J. Wetzel, Dayton, $51,814 and $65,650 respectively. Noted June 7.

O., Maple Heights (Bedford P. O.)—Sewer 1 Summit Ave., to B. J. Whittaker, 208 Columbus Bldg., Cleveland, $20,170; Sewer 1 Dunham Rd., to A. Lanese Co., Columbia Bldg., Cleveland, $15,696. Work involves 4,800 ft. 8 in. vitr. clay pipe.

Mich., Pontiac—Oakland Co., c/o County Drain Commissioner, first section of West End Drain, incl. 5,785 ft. 10-72 in. crock, to C. A. Handyside Constr. Co, 1758 Penobscot Bldg., Detroit, $132,900.

Wis., Cashton—For 20,213 ft. 6-10 in. pipe and sewage disposal plant, to Mankato Constr. Co., Mankato, Minn., $38,494. Noted May 24.

Wis., Marion—Vitr. sanitary sewers to R. J. Wilson Co., 807 College Ave., Appleton, $27,609. Noted Apr. 26.

Wis., Watertown — Storm and sanitary sewers, to E. L. Bartlett, 217 Washington St., $25,756. Noted June 7.

Mo., Maplewood (St. Louis P. O.)—For 15,640 ft. 8-36 in. vitr. clay and 500 ft. 42 in. segmental block sewer in Manchester Sewer Dist. 2, to Frazier-Davis Constr. Co., Arcade Bldg., St. Louis, $97,156. Noted June 14.

Tex., Leonard—Complete sanitary sewerage system, to R. J. Estep & Co., Deere Bldg., Dallas, $36,536. Noted Nov. 30.

Calif., Alhambra—To G. W. Kemper, P. O. Box 223, Venice, 30,054 lin.ft. 8 in. vitr. sewers, etc., in Birch, Main and Plum Sts., etc., Dist. 2, $72,500; 22,265 lin.ft. 8 in. vitr. sewers, etc., in Almanson, Valencia, Granada Sts., etc., Dist. 4, $57,234. Noted June 7.

Que., Montreal—For 1,837 ft. sewer in Hingston St., and 1,125 ft. in Augier St., 2 x 3 brick, to C. Perluzzi, 407 Labrecque St., $5,143 and $1,392 respectively; 973 ft. 6 ft. brick and 97 ft. 6 ft. steel pipe in Nicolet St., to C. Frascarelli & Cie., 654 Berri St., $38,423. Noted Jan. 25.

Waste Disposal

CONTRACTS AWARDED

Ark., Ft. Smith—For 2 unit, 30 ton capacity incinerator, to Nye Oderless Crematory Co., Georgia Life Bldg., Macon, Ga., $24,000.

Bridges

PROPOSED WORK

Pa., Johnstown—Rejected bids 278 ft. rein.-con., 3 span bridge, through plate girders each 92 ft. long, 36 ft. roadway, 2 track trolley line and 8 ft. clear sidewalk, over Conemaugh River, between Laurel and Cooper Aves. $175,000. Revising plans, J. E. Greiner & Co., 995 Union Arcade, Pittsburgh, engrs. Noted Apr. 26.

West Virginia—State Rd Comn., Charleston, rejected bids constructing Five Mile Bridge 857, concrete deck girder, 60 ft. span, and Three Mile Bridge 858, concrete deck girder, 35 ft. span, Project 3138, near Point Pleasant, Mason Co. $24,882. Will readvertise. L. L. Jemison, Charleston, engr. Noted May 24, under Streets and Roads.

Ky., Somerset—See "Streets and Roads."

Ohio—See "Streets and Roads."

O., Cincinnati—West End Terminal Ry. Co. making plans viaduct, 6th and State Aves. to near 3d and Walnut Sts. $750,000.

Mich., Grand Haven—State Hy. Dept., Lansing, rejected bids Bridge 701302, three 100 ft. deck trusses and 212½ ft. swing span, 24 ft. roadway, two 5 ft. walks, 1,259,000 lbs. steel and 255 cu.yd rein.-con., etc. Will readvertise soon. Noted May 10.

Wis., Peshtigo—State Hy. Comn., Madison, plans steel and concrete bridge on State Trunk Highway 15, here, Marinette Co. Cost $60,000, state and county to share cost. W. C. Buetow, bridge engr.

Wis., Stevens Point—State Hy. Comn., c/o M. W. Torkelson, secy., Madison, plans to rebuild 500 ft. steel and concrete bridge on Clarke St., here, recently destroyed by fire. $200,000. Engineer not selected.

Iowa—See "Streets and Roads."

Mo., Kansas City—Kansas City Terminal Ry. Co., Union Sta., had plans prepared 802 ft. steel and rein.-con. viaduct, 30 ft., to have one 5 ft. sidewalk. $375,000. J. V. Hanna, c/o owner, engr.

Mo., St. Louis—Plans 1,560 ft. rein.-con. viaduct 100 ft. wide, over tracks of Wabash R.R. on Delmar Blvd., also culvert for River Des Peres sewer. $538,000. L. E. Bowen, 301 City Hall, engr. Noted Apr. 19.

BIDS DESIRED

Mass., Haverhill—June 29, (change of date) by Haverhill Lower Bridge Rebuilding Comn., 14 Water St., Boston, rebuilding Haverhill Lower Bridge over Merrimack River, here. Former bids rejected. R. H. Mitchell, chn. Noted Apr. 19.

Mass., Taunton—June 25, by Com. on Streets and Bridges, at office of City Clerk, rein.-con. twin arch bridge with 50 ft. roadway, over Taunton River on County St. C. J. Carey, chn.

N. J., Englishtown—July 5, by Bd. Freeholders Monmouth Co. (Freehold) constructing Bridge Mn-30, Water St., here. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. this issue.

Maryland—June 26, by State Roads Comn., Baltimore, rein.-con. arch bridges in Frederick, Montgomery and Hartford Counties. J. N. Mackall, chn.; adv. this issue.

Virginia—See "Streets and Roads."

W. Va., Mannington—July 6, by J. M. Barrack, mayor, constructing bridges over Buffalo Creek on Clarksburg St. and over Pyles Fork Creek on Buffalo St.; widening, filling and concrete paving Clarksburg, Water, Market and Buffalo Sts., also sidewalks leading from Clarksburg St. to Buffalo St. R. E. Mockler, clk.

North Carolina—June 27, by State Hy. Dept., Raleigh, constructing rein.-con. bridges and culverts on State Project 672, Rowan Co., $26,000; State Projects 189, 230 and 293, Wilson, Green and Pitt Counties, $47,000; State Project 141, Edgecombe Co., $67,000; State Project 836, Henderson Co., $52,600; Projects 851, 889 and extension, McDowell and Yancey Counties, $35,000; State Project 213, Craven Co., $55,000; State Project 702B, Allegheny Co., $29,000. C. M. Upham, state highway engr. Noted May 17.

Ga., Waycross — July 6, by State Hy. Dept., Atlanta, bridge over Satilla River, near here, 2,000 cu.yd. concrete, 260,000 lbs. reinforcing, 3,000 ft. wood piling, etc. S. B. Slack, Atlanta, bridge engr.

Fla., Sulphur Springs—June 28, by State Rd. Dept., Tallahassee, 210 ft. rein.-con. bridge, having 4 spans, across Hillsborough River, here, Project 583, Rd. 5, Hillsborough Co. W. F. Cocke, state highway engr.

Alabama—See "Streets and Roads."

Alabama—July 6, by W. S. Keller, state highway engr., Montgomery, bridges on Birmingham-Memphis Highway, from Jasper to Marion Co. line, Walker Co., two 120 ft. steel spans, 18 ft. clear roadway, remainder rein.-con., 1,792 cu.yd. concrete, 221,557 lb. reinforcing, 1,291 cu.yd. excav., 900 sq.yd. 1 in. concrete surfacing, 1:2:3½ mix, etc.

O., Akron—July 9, by W. F. Peters, dir. Pub. Serv., Delaware Bldg., rein.-con. viaduct on West State St. E. A. Kemmler, highway engr.; adv. this issue.

Ohio—See "Streets and Roads."

Wisconsin—See "Streets and Roads."

Minn., Mantorville—See "Streets and Roads."

South Dakota—See 'Streets and Roads."

Utah—See "Streets and Roads."

Alaska—Bridges—June 27, by Purchasing Agent, of Alaskan Eng. Comn., 422 Bell St. Terminal, Seattle, Wash., one 125 ft. and one 150 ft. span steel riveted truss.

BIDS RECEIVED

N. Y., Fine—F. H. Kelly, town clk., June 12, rein.-con. bridge over Little River, from Sullivan Constr. Co., Jersey City, N. J., $14,287. Noted June 7.

Virginia—See "Streets and Roads."

Alabama—State Hy. Dept., Montgomery, rein.-con. or timber bridges on Dublin-Orion Rd., Federal Aid Project 74, Montgomery Co., from J. R. and J. B. Miller, Baconton, Ga., timber $37,994; J. A. Peterson, Montgomery, rein.con. $84,597. Noted May 24, under "Streets and Roads."

Tex., Richmond—Ft. Bend Co. rein.-con. bridges and culverts on State Highway 3, 197,190 lb. steel in bridges, 73,416 lb. steel in culverts, 1,861 cu.yd. concrete in bridges, 836 cu.yd. concrete in culverts, from M. M. Craven, Missouri City, $84,664. Engrs. est. $96,000. Noted May 24 under Streets and Roads.

Colo., Dillon—State Hy. Dept., Denver, 100 ft. low truss bridge with graded approaches, over Blue River, Federal Aid Project 207, Summit Co., approximately 13 mi. north of here, from Rogers & Prichard, 1735 Stout St., Denver, $26,210.

Calif., San Leandro—Supervs. Alameda Co. (Oakland), widening bridge over San Leandro Creek on East 14th St., from W. B. Ellis, 2236 Grove St., Berkeley, $24,818. Noted June 7.

CONTRACT AWARDED

N. Y., Fine—F. H. Kelly, town clk., 140 ft. rein.-con. bridge, 20 ft., over Oswegatchie River, to G. W. Thompson, Gurney Bldg., Syracuse, $31,545. Noted June 7.

N. Y., Williamsville — Bridge over Tonawanda Creek on Transit Rd., concrete work to Meyer & Meyer, Lancaster, $22,123; steel work to Olean Steel & Iron Co., Olean, $23,500.

Pa., Sygan (Bridgeville P. O.)—Comrs. Allegheny Co., (Pittsburgh), one 90 ft. steel girder span, stone abutment, over Millers Run, here, to W. S. Rae, Oliver Bldg., Pittsburgh. Engrs. est. $25,000.

West Virginia—State Rd. Comn., Charleston, repairing Russell Creek Bridge 687, 470 ft., Project 2027, Cabell Co., incl. replacing concrete and brick floor with wood block, additional steel and repairing piers under truss bearings, to Capitol Constr. Co., Columbus, O., $13,251; constructing French Creek Bridge 870, 110 ft., Project 3078 A, Pleasants Co., concrete deck girder, two 25 ft. spans and one 60 ft. span, to Thomas Co., Inc., 1st Natl. Bank Bldg., Huntington, $17,506; Jennies Creek Bridge 872, Project 3188, Wayne Co., ashlar masonry on concrete substructure, to L. W. Cole, 1200 Jefferson Ave., Huntington, $11,278; Abrams Creek Bridge 883, Project 122 B, Grant Co., masonry substructure, to H. W. Kaylor, Hagerstown, Md., $5,359; Little Mill Creek Bridge 816, Project 3074, Jackson Co., concrete deck girder, four 50 ft. spans, Kenna Bridge 817, Project 3075, Jackson Co., concrete arch, 50 ft. span and Denver Bridge 885, across Marsh Fork, Project 3167 B, Marshall Co., concrete or masonry substructure, to Concrete Steel Bridge Co., Clarksburg, $28,766, $6,976 and $7,048 respectively. Noted May 24, under "Streets and Roads."

S. C., Sumter—See "Streets and Roads."

Wisconsin—See "Streets and Roads."

Wis., Milwaukee—Widening Folsom Pl. Bridge from 20 to 40 ft., substructure, to S. M. Siesel Co., 160 Ogden Ave., $56,639; superstructure, to Newton Eng. Corp., 185 Mason St., $77,900. Noted June 14.

Wis., South Milwaukee—See "Streets and Roads."

Ia., Marion—Linn Co., 5 box culverts, 1 pony truss and 4 I-beam bridges, to P. Jayne, 116 16th Ave., W., Cedar Rapids, $39,097.

South Dakota—State Hy. Comn., Pierre, concrete and steel bridge on Federal Aid Project 100, Pennington Co., to Concrete Eng. Co., Rapid City, $28,632; on Federal Aid Project 67 B, Clay Co., to Federal Bridge Co., 1002 Bankers Trust Bldg., Des Moines, Ia., $19,930; on Federal Aid Project 151, Ziebach Co., to Western Bridge & Constr. Co., 248 Peters Trust Bldg., Omaha, Neb., $18,477. Noted June 7 under "Streets and Roads."

Calif., Santa Rosa—Rejected bids rein.-con. slab and girder bridge over Santa Rosa Creek on A St. L. L. Mills, city engr. Noted June 7.

Ontario—Dept. Highways, Toronto, concrete abutments, extensions to 2 steel bridges, Goderich Shalford Rd., Contr. 954, to J. Gaffney, West Moncton, $15,000; concrete bridge abutments, at Walkerton and at Mildmay, Contr. 955, to J. Schwickler, Mildmay, $18,000; concrete bridge abutments, McKenzie Creek, on Caledonia Rd., Contr. 957, and concrete substructure, Aux Sable River, Contr. 936, to Canadian Des Moines Steel Co., Inches Ave., Chatham, $10,000 and $15,000 respectively; concrete bridge abutments, Boston Creek, Caledonia Rd., Contr. 958, to R. H. H. Blackwell, 57 Queen St. S., Toronto, $10,000; concrete bridge abutments, Bloomfield Bridge, Contr. 959, to W. P. R. Holdcroft, Kingston, $10,000; substructure Arthur Bridge, Contr. 933, to C. G. Callahan, Arthur, $15,000; superstructure over Credit River and 3 bridges at Norval, concrete, Contr. 934, to W. E. Tidy, 37 Metcalfe St., Toronto, $20,000.

Ont., Islington — Etobicoke Twp., rein.-con. bridge, 45 ft. wide, to Hyland Constr. Co., 72 St. Mary St., Toronto, $26,853. Engrs. est. $30,000.

Dams

PROPOSED WORK

Tenn., Laurenceburg — Having surveys made and plans prepared hydro electric dam over Shoal Creek, for municipal light plant. Freeland, Roberts Co., Independent Life Bldg., Nashville, consult. engrs.

Tex., Ft. Worth—See "Miscellaneous."

BIDS DESIRED

N. Y., Beacon—July 2, by City Council, 525 Main St., dam at Melzingah Reservoir. G. W. Krieger, Jr., Poughkeepsie, consult. engr.; adv. this issue. Noted May 3.

Tenn., Madisonville—See "Waterworks."

CONTRACTS AWARDED

Pa., Tyrone—Tipton Water Co., brick, rock and concrete dam, 700 ft. long, 78 ft. high, 60 ft. at base, 15 ft. at top, 50 m.g. capacity, to A. L. Anderson & Bros., Inc., Altoona Trust Bldg., Altoona, $600,000.

Tex., Texarkana—Texas & Pacific R.R. Co., Texas & Pacific Bldg., earth dam, concrete spillway, 90 acres clearing and sodding railway embankment, to Henderson & Co., Jefferson, $100,000.

Railways

PROPOSED WORK

Florida—Miami Beach Electric Co., Miami Beach, had plans prepared 1½ mi. street railway in Miami Beach along Pine Tree Dr. $150,000.

Ohio—Columbus Belt Ry. Co., Columbus, plans 12 mi. belt railway around city. $12,000,000 to $15,000,000. J. E. Bleekman, 149 Bway., New York City, pres.

Ohio—Northern Ohio Traction & Light Co., North Main St., Akron, plans double track on Navarre Rd. S. W., in Canton, also 6,000 ft. track between Canton and North Canton, and new tracks on Cleveland Ave. between Tuscarawas and 4th Sts. E. D. Eckroad, Terminal Bldg., Akron, engr.

California—Los Angeles Junction Ry. Co. (recently organized), plans 3 mi. railroad in vicinity of Vernon. O. C. Sattinger, 724 South Spring St., Los Angeles, dir.

CONTRACT AWARDED

Illinois—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, 7 mi. second track from Springfield to Barclay and new double track bridge across Sangamon River, near Spaulding, to J. D. Lynch, Monmouth. Engrs. est. $410,000. This corrects report in May 24 issue.

Texas—Southern Pacific R.R., Southern Pacific Bldg., Houston, new ballast and trackage in yards at Corsicana, by day labor. $25,000. C. N. Black, ch. engr.

Excavation, Drainage Irrigation

PROPOSED WORK

Fla., Key West—Paul Boysen Development Co., had estimates made 150,000 cu. yd. hydraulic dredging and fill. $37,500. B. Curry, Moreno & P. Boysen, Key West, engrs.

Fla., Ft. Pierce—Ft. Pierce Farms Drainage Dist. plans draining 36 sq.mi., clearing out 37 mi. involving 934,490 cu.yd. excav., 44½ mi. new work, 903,640 cu.yd. excav. $421,200. E. Robb, ch. engr. G. B. Hills, Jacksonville, consult. engr.

Mich., Saginaw—Dredging—U. S. Engineer, 337 Federal Bldg., Detroit, plans dredging Saginaw River to restore 18.5 ft. channel in Saginaw Bay and 16.5 ft. channel in Saginaw River.

Wis., Appleton — Outagamie Co. Farm Drainage Bd. having plans prepared 11.25 mi. open ditch, 6.85 mi. 8-14 in. tile, 12 bulkheads, 329,000 cu.yd. excav., etc. $107,000. E. R. Jones, State Capitol, Madison, engr.

Wis., Friendship—Farm Drainage Bd. 4, having plans prepared 18 mi. open ditch, incl. 350,000 cu.yd. excav. $50,000. W. J. McDowell, secy. E. R. Jones, State Capitol, Madison, engr.

BIDS DESIRED

N. Y., Dunkirk—July 17, constructing inclosed channel and accessories for diversion of Hyde Creek. H. J. Henderson, city clk.; adv. this issue.

N. Y., New York—June 26, by J. H. Delaney, comr. Docks, Pier "A," North River, dredging at street cleaning dumps in Boros of Manhattan and Brooklyn, Items 1, 2, 3, 4 and 5.

BIDS RECEIVED

Md., Baltimore—Bd. Awards, dredging in Baltimore Harbor, from Arundel Corp., Pier 2, Pratt St., (1) $0.39 per cu.yd., (2) $0.24 (3) $0.39. Noted June 14.

Calif., Long Beach—City dredging 963,000 cu.yd. material between entrance jetties and outlet of flood control channel, to be deposited on outer shore of harbor, from Los Angeles Dredging Co., Seaside Park, $0.142 per cu.yd. Noted June 7.

CONTRACTS AWARDED

Wis., Sun Prairie—Dane Co. Drainage Bd., 132,000 cu.yd. excav., to Kremer & Hog, Minneapolis, Minn. Engrs. est. $25,000.

Ia., Sidney—Fremont Co., for work in Missouri Valley D.D. 1, Plum Creek Diversion Ditch 390,000 cu.yd. excav., Possum Creek Diversion Ditch 378,000 cu.yd., Main Ditch 515,000 cu.yd., Horse Creek Ditch 60,000 cu.yd., Cooper Creek Ditch 213,000 cu.yd., Knox Ditch 54,000 cu.yd., Melitia Hollow Ditch 38,000 cu.yd., Cresap Lateral 64,000 cu.yd., Mustard Lateral 145,000 cu. yd., five laterals combined 95,000 cu.yd., to Briggs, Drew & Crane, Omaha, Neb., $0.0695 per cu.yd. Noted June 14.

Ia., Webster City—Stensland D. D. 256, 58,924 ft. tile and 4,200 lin.ft. open ditch; to Natl. Sewer and Pipe Co., Webster City, material $29,973; Widman Bros., labor, $12,699.

Streets and Roads

PROPOSED WORK

N. Y., Batavia—Plans paving Manhattan Ave. and State St., various types material. $25,000. F. D. Emerson, city engr.

N. Y., Hudson Falls—Plans grading and paving ⅜ mi. Oak St., 40 ft. $40,000.

N. Y., Skaneateles—Voted $150,000 bonds for new highways.

N. J., Newark—Making plans grading and paving 1 mi. Two Bridge Rd., 20 ft., bituminous concrete or 8 in. rein.-con., to exceed $30,000; 3 mi. Overbrook and Isolation Hospital Rds., 16-25 ft., 8 in. penetration macadam, bituminous concrete and portland cement concrete, to exceed $50,000. W. A. Stickel, Court House, engr.

Pa., Carbondale — Plans brick paving Dundall and Fallbrook Sts. $25,000. W. L. Giles, city engr.

Pa., New Castle—Plans brick paving. $65,000. C. E. Brown, clk.

Pa., Washington — Comrs. Washington Co. plan concrete paving 6,340 ft. Denbo Rd., $59,000; 3,882 ft. Canonsburg-Venice Rd., $40,000 and 8,000 ft. Charleroi-Dover Rd., 2, $95,000, all 16 ft. Chaney Eng. Co., Court House, engrs.

Va., Graham—Soon takes bids paving 4,200 ft. East End St., 30 ft., concrete asphalt, plain concrete or asphalt top over present asphalt base. C. B. Davis, Bristol, engr.

West Virginia—State Rd. Comn., Charleston, received no bids concrete paving 1.2 mi. St. Marys-Ellenboro Rd., Project 3252 A, Pleasants Co., $35,000, 2 mi. Ripley-Kenna Rd., Project 3075 B, Jackson Co., $50,000; waterbound macadam paving 3 mi. Parsons-Thomas Rd., Projects 3029 and 3143, Tucker Co., $75,000; grading and paving with bituminous macadam 2 mi. Madison-Danville Rd., Project 3151 C, Boone Co., $59,000. Will readvertise. Noted May 24.

West Virginia—State Rd. Comn., Charleston, rejected bids concrete paving 1 mi. River Rd., Project 3114 B and D, Brooke Co., 18 ft., $103,960, 0.8 mi. River Rd., Project 3176, Brooke Co., 18 ft., $68,397; brick paving 1 mi. River Rd. Project 3089, Hancock Co., 18 ft., $51,259, 3 mi. road from Brooke Co. line to Kings Creek Bridge, Project 3253, Hancock Co., 18 ft., $131,843; grading 0.96 mi. Kimball-Northfork Rd., Project 2048 A, McDowell Co., 18 ft., $31,731, 6.23 mi. road from end of Project 81 to Preston Co. line, Project 3299, Taylor Co., 18 ft., $114,678, 5.96 mi. Northwestern Turnpike, Project 3203 D, Preston Co., 18 ft., $104,172, 5 mi. Northwestern Turnpike, Project 3203 E, Preston Co., 18 ft., $60,594; grading and paving with bituminous macadam 1.9 mi. Lower Two Mile Run Rd., Projects 3261 and 50, Clay Co., 18 ft., $84,348; completion of grading and paving with waterbound macadam 5.85 mi. Oldfields-Hampshire Co. line Rd., Project 3013, Hardy Co., 18 ft., $123,259; grading and concrete paving 4.81 mi. Thomas-Gnegy Rd., Project 3186, Preston Co., 18 ft., $225,790, 1.1 mi. Main St. of Grantsville, Project 3165, Calhoun Co., 32 ft., $93,877. Will readvertise. E. B. Carskadon, secy. Noted May 24.

Fla., Jacksonville — Plans improving Laura St., 45 ft., includes concrete curbing, brick guttering and paving with sheet asphalt on 6 in. concrete. $35,000. W. E. Sheddan, Jacksonville, engr.

Fla., Key West—Voted $25,000 bonds surfacing various streets, asphalt on rock. B. C. Moreno, Key West, engr.

Fla., Pensacola — Escambia Co. having plans prepared paving with asphalt on concrete 4 mi. road from Flomaton to Pensacola. $100,000. W. E. Wheat, Pensacola, engr.

Alabama—State Rd. Dept., Montgomery, having plans prepared grading, gravel surfacing and one concrete bridge, 90 ft. long, 18 ft. roadway, on 20 mi. Haleyville-Double Springs Rd. W. S. Keller, state highway engr.

Ala., Alabama City—Plans grading and asphalt paving 10 blocks Forrest Ave. and 7th St., 10 ft. $80,000.

Tennessee — State Hy. Dept., Nashville, soon takes bids grading, surfacing and bridging 11½ mi. road, Bedford Co., 16 ft., probably hand placed limestone base. J. G. Creveling, comr.

Ky., Henderson—Henderson Co. will sell $214,000 bonds, July 9, hardsurfacing 8 mi. Henderson Rd.

Ky., Somerset—Pulaski Co. plans election in November to vote on $200,000 bonds for roads and bridges. C. M. Langdon, co. clk.

Ky., Whitesburg—Letcher Co. plans election in July to vote on $300,000 bonds for new roads.

Ohio—Dept. Highways and Pub. Wks., Columbus, received no bids June 15, grading, bridging and paving 1.047 mi. Sect. "P" Ohio River Rd., Columbiana Co., brick. Noted June 7.

O., Akron—Summit Co. plans paving 11 mi. Cleveland-Massillon Rd., 18 ft., asphalt. $490,000. J. E. Root, City Hall, engr.

O., Alliance — City authorized $134,830 bonds resurfacing 10 blocks East Main St., brick, also South Arch St. Stark Co. (Canton) appropriated $42,500 and $44,000 toward respective projects.

O., Clarington — Plans paving main streets. $70,000. H. C. Althar, Bellaire, engr.

O., Cleveland—Cuyahoga Co. plans grading and paving Northfield Rd. and 2 sections of Miner Rd., vitr. brick, concrete or waterbound macadam. $200,000. F. Lander, Court House, engr.

O., Columbus—Making plans grading laying necessary water services and sewer connections and paving 1,640 ft. alley west of Harrison Ave., alley west of Pennsylvania Ave., alley west of Linwood Ave. and alley north of 14th St., 20 ft., brick or concrete; 1,421 ft. Isabel, Terrace and Parkwood Aves., 24 ft., brick or asphalt; 2,988 ft. Hosack St., 26 ft., brick or asphalt. R. H. Simpson, city engr.

O., Dayton — Plans curbing, guttering, laying 18 in. vitr. storm sewers and brick paving 8,700 sq.yd. Epworth Ave. $48,058. I. E. Houk, city engr.

O., Ironton—Plans paving Spruce, 9th, Maple, 11th, Vine and Adams St., asphalt $112,435, brick $114,674, concrete $103,552. L. G. Howell, Ironton, engr.

O., Shaker Heights (Cleveland P. O.)—Rapid Transit Land Co. plans grading, laying sidewalks, sewers, water mains and paving Fairmount Blvd., Warrensville Center, Cedar and Green Rds. $500,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Michigan—State Hy. Dept., Lansing, soon takes bids grading, concrete surfacing, etc., 1½ mi. State Trunk Line Rd. 37-5, Sects. A and B; Barry Co., 1 mi. State Trunk Line Rd. 11-48 and 1 mi. State Trunk Line Rd. 13-45, both Petoskey Co., 1½ mi. State Trunk Line Rd. 37-4, Kent Co., 1 mi. State Trunk Line Rd. 59-1, Sect. A, Utica Co., 1½ mi. State Trunk Line Rd. 53-2 A and 53-7, Romeo Co., 5½ mi. Federal Aid Project 93, Ingham Co., 5½ mi. Federal Aid Project 97, Oakland Co., all foregoing 20 ft.; 5½ mi. Federal Aid Project 74, Sect. A, Washtenaw Co., and 1 mi. State Trunk Line Rd. 17-6, Sects. A and B, in cities of Ann Arbor and Ypsilante, both 20 ft., asphalt, concrete or bituminous concrete; 1½ mi. State Trunk Line Rd. 11-9, Michigan Co., 18 ft. concrete; 1½ mi. of 16 ft. bituminous macadam; 5 mi. concrete road, Kent Co.; 14½ mi. road in Monroe Co.; 1½ mi. State Trunk Line Rd. 65-2, Washtenaw Co., 16 and 20 ft., concrete and gravel. F. F. Rogers, comr.

Mich., Detroit—Preparing plans paving following streets with 3 and 3½ in. sheet asphalt on 6 and 8 in. concrete, 9,000 sq.yd. Wilshire Ave., $54,340, 5,000 sq.yd. Fairfield Ave. $31,204, 17,000 sq.yd. American Ave. $98,040, 19,500 sq.yd. La Belle Ave. $115,400, 4,400 sq.yd. Webb Ave. $26,500, 560 sq.yd. Posen St. $2,980, 3,800 sq.yd. Ferdinand St. $19,200; paving 4 alleys with one course 6 in. concrete, $20,450. J. W. Reid, City Hall, engr.

Mich., Ferndale—Making plans grading and paving ½ mi. Nine Mile Rd., 5,500 lin. ft. concrete curbing, 11,000 sq.yd. concrete. $40,000. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Mich., Monroe — Making plans paving 1,950 sq.yd. West Vine St., 8,880 sq.yd. West 3rd St., 8 in. concrete. $32,000. F. M. Kressbeah, city clk.

Streets and Roads (Continued)

Ill., East St. Louis—Soon receives bids grading, curbing and 8 in. rein.-con. paving, 1,800 ft. 26th St., 6,000 sq.yd. concrete, 3,500 lin.ft. concrete curb and gutter, $27,500; 3,000 ft. 25th St., 10,000 sq.yd. concrete, 5,800 lin.ft. concrete curb and gutter, $41,000. W. McK. Brown, City Hall, engr.

Ill., Olney—Takes bids about July 18, 60,000 sq.yd. sheet asphalt, warrenite or brick paving. H. Grassman, comr. pub. wks.

Iowa — State Hy. Comn., Ames, plans grading and bridging 15 mi. Primary Rd. 21, O'Brien Co., Primary Rd. 5 and 17.5 mi. Primary Rd. 29, Plymouth Co., Primary Rd. 59, Poweshiek Co., 8 mi. Primary Rd. 2, Scott Co., Primary Rd. 58, Tama Co., 10 mi. Primary Rd. 16, Taylor Co., Primary Rd. 8, Union Co., Primary Rds. 3 and 11, Van Buren Co., 2.6 mi. Primary Rd. 1, Primary Rd. 15 and 6.9 mi. Primary Rd. 65, Warren Co., 11.65 mi. Primary Rd. 14, Wayne Co., Primary Rd. 38, Muscatine Co., Primary Rds. 18 and 84, Page Co.; grading and gravel surfacing 1.07 mi. Primary Rd. 1, Story Co.; gravel surfacing 13.986 mi. from Orange City west, 13.8 mi. Maurice to Perkins and 12.735 mi. from Hull east, Sioux Co., 2 mi. from Mallard south on Primary Rd. 17, Palo Alto Co., Primary Rd. 9, Osceola Co., 5 mi. roads in various towns, Primary Rd. 4 and Primary Rd. 23, Sac Co.; building bridge at Fonda, reshaping and gravel surfacing Primary Rd. 17, and road from Rolfe south to Primary Rd. 10, Pocahontas Co.; grading and grade separation 2.1 mi. in Albia on Primary Rd. 8, 0.8 mi. extension to Primary Rd. 8, and grading and bridging 9.5 mi. Primary Rd. 17, Monroe Co.; elimination 2 interurban railway grade crossings on Primary Rd. 7, Polk Co. Iowa Hy. Comn., Ames, engrs.

Minn., St. Paul—Plans about 30 mi. paving, various types. $2,000,000. G. M. Shepard, city engr.

Kan., Independence — Montgomery Co. soon takes bids bituminous macadam paving 41,286 sq.yd. Federal Aid Project 79, Sect. A, and 43,745 sq.yd. Sect. B. H. K. Hibbard, co. engr.

Kan., Larned—Pawnee Co. rejected bids sand clay surfacing 11.214 mi. Federal Aid Project 134, Sects. A and B. Will readvertise soon. V. Stuart, co. engr. Noted May 17.

Wyo., Sheridan—Plans grading, curbing, guttering and paving, also building sewers in 35 blocks. $180,000. E. C. Gwillim, city engr.

Mo., Kahoka—See "Sewers."

Tex., Abilene—City Com. takes bids in summer paving 80,000 sq.yd. Pine and Chestnut Sts., brick, bitulithic or similar pavement. $210,000. H. H. Batjer, city engr.

Tex., Dallas—Making plans macadamizing roads in Tenison Park. $35,000. E. A. Kingsley, city engr.

Tex., Dallas—Making plans removing wood block and repaving with bituminous or brick portions Elm St., McKinney and Parry Aves. $200,000. E. A. Kingsley, city engr.

Tex., Ft. Worth—City Com. soon takes bids repaving Jennings Ave. from Railroad to Terrell Sts., bituminous. $40,000. D. L. Lewis, city engr.

Okla., Barnsdall—Having plans prepared grading and concrete paving 5 blocks, Cedar St. from 1st to 5th Sts., 26 ft. $40,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Clinton — Having plans prepared grading and paving 7 blocks, 12,000 sq.yd. asphaltic concrete. $60,000. B. M. Hart, City Hall, engr.

Okla., El Reno—Having plans prepared grading and paving 14 blocks Ellison, Wade and Thomas Sts., 26 ft., 4,000 cu.yd. excav., 17,000 sq.yd. asphalt. $75,000. H. G. Powell, city engr.

Okla., Newkirk — Had plans prepared paving 50 blocks, various types of pavement. Richard Eng. Co., Ponca City, engrs.

Okla., Pauls Valley—Having plans prepared grading and vertical fibre brick paving 3 blocks Willow St. and Joy Ave., 50 ft. $45,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Ponca City—Had plans prepared paving 30 blocks, brick and asphalt. J. M. Richards, Ponca City, engr.

Calif., Los Angeles—Had plans prepared grading, curbing, guttering, sidewalks and paving Wilton Pl. between Santa Monica Blvd. and Clinton St., 104-481 sq.ft. asphalt, etc.

Calif., San Francisco — City and San Francisco Co. appropriated $25,000 to reconstruct 7th St. between Townsend and 3d Sts. M. M. O'Shaughnessy, city engr.

Calif., San Francisco — City and San Francisco Co. appropriated $50,000 to pave and lay sewers in 6th St. between Howard and Townsend Sts. M. M. O'Shaughnessy, city engr.

Calif., San Francisco—City appropriated $40,000 to repave Folsom St. from 3rd St. westerly. M. M. O'Shaughnessy, city engr.

Calif., San Francisco—Plans to repave Howard St. between 7th and 9th Sts. $28,000. M. M. O'Shaughnessy, city engr.

Calif., Taft—Had revised plans prepared concrete curbing, sidewalks and paving 4th St. from Kern to north city limits, 67,000 sq.ft. concrete, etc. E. M. Lynch, Central Bldg., Los Angeles, engr. Noted May 24.

Que., Verdun — Plans paving 2,250 ft. Wellington St., 63 ft., asphalt, $70,000; 1,600 ft. Hickson St., 50 ft., and 1,312 ft. Regina St., 55 ft., $45,000; 3,375 ft. Verdun Ave., 50 ft., concrete foundation, $10,000. C. Johnston, city engr.

Ont., Ottawa—Plans resurfacing with asphalt Sparks St. from Bank to Wellington Sts. $50,000. A. F. Macallum, city engr.

Ont., Tavistock—Oxford Co. plans paving 5 mi. Country Rd. east of Tavistock, 18 ft., probably macadam. $100,000. F. J. Ure & Sons, County Bldg., Woodstock, engrs.

Ont., Toronto—Plans grade reduction on Maclennan Ave., 500 ft. long, 66 ft. wide, earth excav. and concrete retaining walls. $61,000. R. C. Harris, city engr.

BIDS DESIRED

Connecticut—June 28, by State Hy. Dept., Hartford, concrete paving road in town of Danbury; waterbound macadamizing roads in towns of Sharon, Salisbury, Weston and Woodbury. C. J. Bennett, 12 Washington St., Hartford, state highway comr.; adv. this issue.

N. Y., Brooklyn—June 27, by E. Riegelmann, boro pres., Boro Hall, asphalt repaving North Elliott Pl., Rutland Rd., DeKalb and Gelston Aves., North Oxford, St. Edward and 60th Sts.; paving and repaving 15th Ave. and 84th St.

N. Y., Long Island City—June 27, by M. J. Connolly, pres. Queens Boro, Boro Hall, paving Woodhaven Ave., Rockhill Rd., Hillside Ave. from Lefferts Ave. to Queens Blvd. and Hillside Ave. from Queens Blvd. to Bergen Ave., sheet asphalt on macadam; Flushing and Jamaica Aves., sheet asphalt on concrete; 6 in. preliminary paving, etc., on Roosevelt Ave.

N. Y., North Tarrytown (Tarrytown, P. O.)—July 2, by Bd. Supervs. Westchester Co. (White Plains) rein.-con. paving Bedford Rd. and Webber Ave., here. F. L. Merritt, clk.; adv. this issue.

N. Y., St. George — June 26, by J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving Richmond Rd. from Summit to Midland Aves., bituminous concrete and granite block.

N. Y., St. George — June 29, by J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete curbing with steel guard, laying, relaying or renewing sidewalk on Ocean Ave.

N. J., Trenton—July 3 (change of date) by Mercer Co., asphalt paving 1.9 mi. Hamilton Ave., 30 ft. $100,000. H. F. Harris, Court House, engr. Noted June 7.

N. J., Westwood—June 26, by Clerk Bergen Co. (Hackensack) asphalt paving Fairview Ave., here. $25,000. W. G. Clark, 30 Church St., New York City, engr.

Pa., Ebensburg—June 27 by Comrs. Cambria Co., reconstructing 16,136 ft. Wilmore Plankroad, Cambria Twp., bituminous concrete, Spec. "D" on Telford base course, or one course rein.-con. H. T. Jones, controller. Noted June 7.

Pa., Ebensburg—July 2, by Comrs. Cambria Co. and Supervs. Croyle Twp. reconstruction 3 mi. Frankstown and Kneppers Mill Rd., vitr. brick on concrete, rein.-con. or Telford macadam (bituminous) $130,000. Separate bids on 1,045,000 No. 1 repressed brick. O. P. Thomas, Park Bldg., Johnstown, engr.

Pa., Pittsburgh—Comrs. Allegheny Co. receiving bids rein.-con. paving 4 mi. Universal Rd. between Plum and Penn Twps., 20 ft. $100,000. V. R. Covell, co. engr.

Virginia—July 6, at office State Hy. Dept., Richmond, constructing 5.19 mi. Project F 295, Henrico Co.; 3.95 mi. Project S 65 D, Rockbridge Co.; 1.63 mi. Project S 255, Tazewell Co., 0.65 mi. Project S 315, Orange Co.; 9.6 mi. Project F 282, Pittsylvania Co.; 7.49 mi. Project S 248, Nelson and Amherst Counties; 2.13 mi. Project F 301, Albemarle Co.; bridge over Grassy Creek, Project F 178, Mecklenburg Co.; bridge over Spoon Creek, Project F 227, Patrick Co.; 4 bridges over Little Cedar Creek, Project S 325, Russell Co. H. G. Shirley, chn.; adv. this issue.

W. Va., Fairmont—July 10, by Comrs. Marion Co. grading and surfacing with concrete or asphalt macadam 1 mi. Morgantown Rd., Project 1, 16 ft., 3 mi. Winfield Rd., Project 2, 14 ft., 1 mi. Hoult Rd. Project 3; grading and surfacing with waterbound macadam 1½ mi. Montana Rd. Project 4, for Winfield Dist. F. J. Wilfong, co. road engr. Noted Mar. 29.

W. Va., Mannington—See "Bridges."

W. Va., St. Albans—July 10, by H. O. Palmer, clk., 18,000 sq.yd. paving.

N. C., Henderson—June 28, by Comrs. Vance Co., hardsurfacing 3 mi. Dabney, Oxford and Cooper Rds., Dist. 1, 2 and 3. W. S. Corbitt, secy. M. E. Miller, Salisbury, engr.; adv. this issue.

S. C., Bennettsville—June 27, by Marlboro Co. Hy. Comn., improving 5.4 mi. State Route 9, Federal Aid Project 196 A, 66,800 cu.yd. common excav., 14,097 cu.yd. clay gravel, etc. J. M. Martin, Florence, engr.

S. C., Lancaster—July 6, by Comrs. Lancaster Co., improving 3.17 mi. sect. State Route 9, Federal Aid Projects 167 and 205, incl. construction of approaches to Cooks Mill bridge over Lynches River, 18,748 cu.yd. common and 7,359 cu. yd. rock excav., 9,927 cu.yd. topsoil.

Fla., Deland—See "Waterworks."

Alabama—July 6, by W. S. Keller, state highway engr., Montgomery, grading and gravel surfacing 22.79 mi. Birmingham-Memphis Highway, from Jasper to Marion Co. line, Walker Co., 103 acres clearing, 369,817 cu.yd. excav., 342,543 sta.yd. overhaul, 2,044 cu.yd. concrete, 191,569 lb. reinforcing, 70,000 cu.yd. imported gravel surfacing within 1 mi., 125,000 half mile units overhaul, etc.; grading, bridging and surfacing with 2½ in. bituminous macadam 2.352 mi. Guntersville-Gadsden Rd., Marshall and Etowah Counties, 22,771 cu.yd excav., 74,574 sta.yd. overhaul, 8,740 cu. yd. chert base, 24,840 sq.yd. 2½ in. bituminous macadam, penetration, etc., bridges on above road involves 307 cu.yd. concrete, 33,892 lb. reinforcing, etc.

Ala., Selma—June 30, 15,500 sq.yd. asphalt, concrete and brick paving. W. O. Crisman, Selma, engr.

Louisiana—June 25, by State Hy. Dept., Baton Rouge, grading and surfacing, etc. Sects. A, B, C and D New Orleans Point a La Hiway, Project 367, Plaquemines Parish. J. M. Fourmy, state highway engr.

La., Abbeville—July 5, by R. P. Leblanc, secy. Police Jury, Vermillion Co., Court House, graveling approximately 14 mi. road in Road Dist. 2.

Tenn., Nashville—July 10, at office Bd. Pub. Wks., 17,000 sq.yd. granite block paving, 64,000 sq.yd. asphaltic resurfacing, 11,000 sq.yd. asphaltic paving (new grading and paving). H. E. Howse, mayor; adv. this issue.

Ohio—June 22, by Dept. Highway & Pub. Wks., Columbus, grading, bridging and paving 94.4694 mi. roads in Athens, Brown, Carroll, Clermont, Columbiana, Clark, Fulton, Greene, Hamilton, Hardin, Harrison, Lucas, Madison, Mahoning, Medina, Perry, Portage, Scioto, Trumbull, Wood, Erie, Fayette, Franklin, Jackson and Licking Counties, rein.-con., bituminous macadam asphalt or tar, waterbound macadam, concrete, Kentucky rock asphalt, bituminous concrete, bitoslag or sheet asphalt; concrete bridges in Columbiana, Darke and Delaware Counties. L. C. Herrick, dir. highways.

Ohio—June 28, by Dept. Highways & Pub. Wks., Columbus, grading, bridging and paving 6.366 mi. roads in Geauga and Williams Counties, bituminous macadam, asphalt or tar, $153,156; Sect. "I-2" Portsmouth-Columbus Rd., Scioto Co., brick, $33,048. L. C. Herrick, dir. highways.

O., Akron—July 6, by Bd. Control, paving Power St., less than 1 mi., 35 ft. wide, brick. $28,600.

O., Cincinnati—June 29, by Hamilton Co., grading and paving 60,000 sq.yd. Cleves-Warsaw Rd., concrete $402,749, bitoslag or bitulithic $498,834. E. A. Gast, Court House, co. surv. Noted June 7.

O., Columbus—June 26, by W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections and paving with (a) brick (b) asphalt (c) concrete 1,314 ft. Bellows Ave., 26 ft., (a) $23,053 (b) $19,738; 1,753 ft. Rich St., 82.5 ft., (b) $43,013; 1,400 ft. Brevoort Rd., 60 ft., (a) $23,686 (b) $20,713; 2,044 ft. 3rd St., 50 ft., (a) $28,001 (b) $23,841; 4,478 ft. Oak St., 33 ft., (a) $54,060 (b) $51,125; 457 ft. alley north of Mithoof St., 20.68 ft., (a) $3,666 (c) $2,898; 590 ft. alley north of 7th Ave., 16 ft., (a) $3,630 (c) $2,850; 390 ft. alley west of Woodland Ave., 20 ft., (a) $2,356 (c) $1,886; 461 ft. alley north of Rich St., 16 ft., (a) $2,959 (c) $2,334.

Indiana—June 26, by State Hy. Comn., Indianapolis, paving 8.269 mi. St. Meinrad-Bristow-Birdseye Rd., Projects 34d and 42a, Spencer and Perry Counties; 7.297 mi. Sulphur-Leavenworth Rd., Project 42d.

Streets and Roads (Continued)

Crawford Co.; 5.002 mi. Scottsburgh-Blocher Rd., Project 59, Scott Co. C. Gray, state highway engr.

Wisconsin—June 27, by State Hy. Comn., at div. office 6, 213 South Barstow St., Eau Claire, grading and surfacing, Humbird-Neillsville Rd., Clark Co., 5,942 cu.yd. gravel, Wilson-Knapp Rd., Dunn Co., 8,217 cu.yd. featheredge gravel, etc. A. R. Hirst, Madison, highway engr.

Wisconsin—June 26, by State Hy. Comn., at div. office 1, 149 East Wilson St., Madison, grading and surfacing Clinton-Darien Rd., Rock Co., Sect. A, 41,395 sq.yd. concrete surfacing, etc., Sect. B, 4,090 sq.yd. concrete surfacing, etc.; Beaver-Dam-Columbus Rd., Dodge Co., 30,226 sq.yd. concrete surfacing, etc., bridge at sta. 291A. A. R. Hirst, Madison, highway engr.

Wisconsin—June 26, by State Hy. Comn. at div. office 5, Batavian Natl. Bank Bldg., Trempealeau grading and surfacing Blair-Ettrick Rd., Federal Aid Project 43, 5,582 cu.yd. gravel, Blair-Ettrick Rd., Federal Aid Project 343, 21,129 cu.yd. excav., 3,060 cu.yd. gravel, 4,414 cu.yd. shell, etc., both Trempealeau Co. A. R. Tirst, Madison, highway engr.

Wisconsin—June 26, by State Hy. Com. at div. 4, Citizens Natl. Bank Bldg., Wisconsin Rapids, grading and surfacing Sherry-Auburndale Rd., 50,660 sq.yd. concrete, etc., Milladore-Blenker Rd., 5,400 sq. yd. concrete, etc., both Wood Co.; Bear Creek-New London Rd., Waupaca Co., 10,600 sq.yd. concrete, etc. A. R. Hirst, Madison, highway engr.

Wis., Milwaukee—June 26, by Dept. Pub. Wks., paving various streets, 37,017 sq.yd. concrete, 825 sq.yd. asphaltic concrete, 4,500 sq.yd. sheet asphalt, 1,078 sq.yd. granite block.

Ia., Eagle Grove—June 26 for 30,000 yd. paving, various types. Currie Eng. Co., engrs.

Ia., Iowa City — June 26, by Auditor Johnson Co., grading 3.93 mi. Primary Rd. Project 310 and 11.28 mi. Primary Rd. Project 207, 248,291 cu.yd. excav., 2,112 ft. 15-30 in. culvert pipe, 3,850 ft. 6-12 in. tile, $75,000. A. F. Fischer, co. engr.

Minn., Faribault—July 12, by F. M. Kaisersalt, aud., Rice Co., 7 mi. Job 2313, State Rd. 22, 60,420 cu. yd. earth and 1,662 cu.yd. loose rock excav., 72,373 cu.yd. overhaul, etc.; 6 mi. Job 2316, State Rd. 28, 36,350 cu.yd. earth, 500 cu. yd. loose rock and 223 cu.yd. solid rock excav., 43,066 cu.yd. overhaul, one 75 ft. truss, No. 4068, concrete, etc.; 4 mi. Job 2309, State Rd. 48, 36,779 cu.yd. earth excav., 59,309 cu.yd. overhaul, etc.; Job 2312, State Rd. 30, 53,185 cu.yd. earth excav., 50,932 cu.yd. overhaul, two 35 ft. beam spans, 4082 and 4083, etc. $70,000. J. C. McElherne, Faribault, engr.

Minn., Mantorville—June 29, by Dodge Co., 7.5 mi. Job 2303, State Aid Rd. 1, 85,478 cu.yd. earth and 100 cu.yd. loose rock excav., 188,050 cu.yd. overhaul, one 18 ft. beam span and one 18 ft. concrete slab, etc. $25,000. D. P. Poboisk, Mantorville, engr.

Neb., Lincoln—July 5, by R. Cochrane, state engr., paving 11⅛ mi. Military Rd. and 2¼ mi. road, for State and Douglas Co. Noted June 14.

South Dakota—June 26, by State Hy. Comn., Pierre, grading 18.61 mi. roads in Bon Homme, Union and Custer Counties, 78,988 sta.yd. overhaul, 124,314 cu.yd. common and 30,124 cu.yd. rock excav., etc., also 67 ft. concrete viaduct in Tripp Co. F. D. Hudgins, state highway engr.

N. D., Crosby—June 26, by R. H. Lynch aud. Divide Co. gravel surfacing 10 mi. Federal Aid Project, 78, incl. sub-grading, preparing earth shoulders, loading and spreading, etc., 13,738 cu.yd., 43,739 cu.yd. 1 mi. haul, 13,738 cu.yd. screening, $28,000.

Mo., St. Louis — July 17, by Bd. Pub. Serv., 208 City Hall, paving 20 alleys, 27,446 sq.yd. concrete, $75,710. W. W. Horner, City Hall, engr.

Mo., University (St. Louis P. O.)—July 3, by E. B. Colby, city clk., repaving 10,560 sq.yd. Delmar Blvd., asphalt. Former bids rejected. Noted May 24.

Ark., Newport — June 30, paving and sewers in Laurel, Laura, and Newport Aves. in Dist. 8, 8,000 sq.yd. asphalt, concrete or bituminous concrete, 5,000 lin.ft. concrete curb and gutter, $35,000; 1st, Beech, Pridge, Laurel, Hazel, Walnut, Main, Vine, Pine and Elm Sts. in Dist. 7, 26,420 sq.yd. asphalt, concrete or bituminous concrete, 8,590 lin.ft. concrete curb and gutter, etc., $100,000. Morgan Eng. Co., Goodwyn Institute Bldg., Memphis, Tenn., engrs. Noted May 3.

Tex., Coleman—June 27, by S. J. Pieratt, judge Coleman Co., grading, gravel surfacing, etc., 5.87 mi. State Highway 7 A, 12,621 cu.yd. gravel, etc. $61,090. W. E. Dickerson, co. engr.

Tex., Colorado—June 26, by J. C. Hall, judge Mitchell Co., paving 0.52 mi. State Highway 1, 20 ft., (a) 2 in. Warrenite bitulithic, (b) 2 in. Uvalde rock asphalt, (c) 3 in. vitr. fibre brick on 5 in. concrete, (d) 7 in. one course concrete. $26,000. F. F. Du Bose, co. engr.

Tex., Colorado—June 26, by Mayor at office of L. A. Costin, city secy., paving 15,120 sq.yd. 2nd and Walnut Sts., (a) 2 in. warrenite bitulithic on 5 in. concrete (c) 2 in. Uvalde rock asphalt on 5 in. concrete (c) 3 in. vertical fibre brick on 5 in. concrete (d) 7 in. one course concrete. $50,000. F. F. Du Bose, Colorado, engr.

Tex., Eastland—June 29, by E. S. Pritchard, judge Eastland Co., bituminous macadam surfacing, etc., 18.67 mi. State Highway 18, 10.04 mi. State Highway 22, 19.14 mi. State Highway 23A, 16 ft. $300,000. C. S. Henning, engr. in charge.

Tex., Paris—June 30, by W. D. Lawrence, judge Lamar Co. concrete paving 2.41 mi. State Highway 5, 25,535 sq.yd. concrete pavement, etc. $78,200. W. M. Fooshee, co. engr.

Tex., Sanderson—June 29, by G. J. Henshaw, judge Terrell Co., grading, gravel surfacing, etc., 13.07 mi. State Highway 12, 27,747 cu.yd. gravel, etc. $101,200. J. Stovall, co. engr.

Utah — June 25, by State Rd. Comn., Salt Lake City, improving State Rd. between Castle Dale and Ferron, Emery Co., 50,000 cu.yd. common excav., 26,000 cu. yd. borrow, 23,240 cu.yd. gravel surfacing, one 25 ft. I-beam bridge, one 100 ft. 3 span concrete bridge with alternate 50 ft. plate girder for center span, and Rochester Flat Bridge, 75 ft. 3 span I-beam, all concrete substructures. H. C. Means, ch. road engr.

Utah—June 26, by State Rd. Comn., Salt Lake City, improving portion Salt Lake Rd., Summit Co., Federal Aid Project 49, 21,500 cu.yd. common and 2,400 cu.yd. rock excav., 13,800 cu.yd. borrow and 6,210 cu.yd. gravel surfacing. H. C. Means, ch. road engr.

Utah—July 2, by State Rd. Comn., Salt Lake City, grading and paving 1.5 mi. road from Richfield south, 1.5 mi. in Salina City and 3 mi. from Salina City to Redmond, Federal Aid Project 43, 44 and 52 respectively, 4,500 cu.yd. excav., 13,900 cu. yd. borrow, 63,470 sq.yd. hard surface. H. C. Means, ch. road engr.

Nevada—June 27, by State Hy. Dept., Carson City, grading, gravel surfacing, etc., Project 54-A, Deeth-Wells Rd., Elko, 1-D, Contr. 79. G. W. Borden, state highway engr.

California—July 9, by State Hy. Comn., Sacramento, surfacing with asphaltic seal coat 7.5 mi. highway between Auburn and north boundary; grading and gravel surfacing 0.2 mi. highway near Lytton, Placer and Sonoma Counties. R. M. Morton, state highway engr.

Calif., Los Angeles—Supervs. Los Angeles Co. receiving bids improving Los Angeles St., shaping 12,444 sq.yd. roadway, 3,958 sq.yd. 2 in. and 9,486 sq.yd. 2½ in. asphaltic concrete top, 3,958 sq.yd. 4 in. and 8,486 sq.yd. 4½ in. asphaltic concrete base, 12,444 sq.yd. flush coat, etc. $28,800.

Calif., Martinez—July 2, by Supervs. Contra Costa Co., straightening out 3,000 lin.ft. highway over Charles Hill on Tunnel Rd., 12,000 cu.yd. excav.; paving 4,279 lin. ft. road leading from Pittsburgh south to Old Mortonville Coal Mines, 18 ft., 1,800 cu.yd. excav., 5 in. concrete pavement with submerged curbs; oil macadam paving 1.47 mi. road from junction of Tassajara and Danville Rds. to Diablo Country Club. R. R. Arnold, co. surv.

Calif., San Mateo—City Trustees receiving bids grading, concrete curbing, sidewalks and paving 1st, 2d, 3d and 4th Aves., etc., 300,000 sq.ft. 1½ in. asphaltic concrete on 4½ in. concrete, 17,400 lin.ft. concrete curb, etc. To exceed $25,000. G. Whitehead, city engr.

Calif., San Rafael—City Clerk receiving bids grading, concrete curbing, guttering and paving 6th St. between B and C Sts., 23,100 sq.ft. asphaltic macadam, etc. H. K. Brainerd, city engr.

Ont., Ottawa—June 26, paving with asphalt Catherine St., $14,000; Bank St., $183,000. A. F. Macallum, city engr.

BIDS RECEIVED

R. I., Ashland—Water Supply Bd., City Hall, Providence, June 13, constructing Ashland Causeway, here, from T. F. McGovern, 95 Main St., Southbridge, Mass., $288,400.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., June 13, repaving (1) 70th St., (2) West 74th St., (3) East 73d St., (4) East 63d St., (5) West 71st St., (6) 114th St., curbing, recurbing, flagging, reflagging and paving (7) West 188th St., (8) West 189th St., all sheet asphalt, from Uvalde Asphalt Paving Co., 1 Bway., (1) $13,760 (4) $17,571 (5) $12,162; Asphalt Constr. Co., 208 Bway., (2) $32,911; Cleveland Trinidad Paving Co., Flushing, (3) $53,208 (6) $17,127; J. E. Gaffney, 438 East 91st St., (7) $7,149 (8) $7,149. Noted June 7.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., June 15, sheet asphalt repaving (1) 57th St. (2) 6th St. (3) 6th St. (4) 7th St. (5) 12th St. (6) 15th St., from W. J. Fitzgerald, 547 West 45th St., (1) $32,974 (5) $11,797 (6) $14,919; Sicilian Asphalt Paving Co., 41 Park Row, (2) $36,601 (3) $15,612 (4) $20,582. Noted June 7.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, June 12, repaving Castleton Ave., etc., granite block, from J. Johnson Sons, 455 Bway., West New Brighton, $85,097. Noted June 7.

Pa., New Castle—Paving Croton Ave., from M. J. Scanlon, 215 Liberty St., brick on concrete $36,837, brick on gravel $24,033. Noted Jan. 18.

Delaware—State Hy. Dept., Dover, improving (1) 5.17 mi. Harbeson-Milton Rd., Contr. CS 21, (2) 8.9 mi. Harrington-Burrsville Rd., Contr. CK 10, (3) 0.833 mi. Houston-Milford-Harrington Rd., Contr. CK 13, (4) 3.09 mi. Frankford-Omar Rd., Contr. CS 22, (5) 2.24 mi. Dublin Hill-Bridgeville Rd., Contr. CS 24, (6) 0.765 mi. road through Frederica, Contr. 24 C, (a) stone concrete (b) slag concrete, from R. L. Bonham Co., Bridgeton, N. J., (1) $173,427; McNichol Paving & Constr. Co., 1923 Cherry St., Phila., (2) $315,418; Juniata Co., Empire Bldg., Phila., (3a) $26,646, (3b) $26,003, (6) $14,145; Highway Eng. & Constr. Co., Shelbyville, Del., (4a) $91,977, (4b) $91,497, (5) $65,023. Noted May 31.

Maryland—State Rds. Comn., Baltimore, June 12, concrete surfacing 9,350 sq.yd. Contr. F-64, Frederick Co., from L. R. Waesche, Thurmont, $33,232; 17,850 sq.yd. Contr. Ce-45, Cecil Co., from G. R. Abbott & Sons, 3307 Bateman Ave., Baltimore, $54,793; 9,000 sq.yd. Contr. D-30, Dorchester Co., from Smith & Renshaw, East New Market, $26,674; 3,520 sq.yd. concrete shoulders, Contr. 125-A, Montgomery Co., from Corson & Gruman, 33rd and K Sts., Wash., D. C., $11,757; 2.04 mi. Contr. A-3-A, Allegany Co., 3 ft. concrete shoulders each side, from T. D. Claiborne Co., Garrett Bldg., Baltimore, $27,088. Noted May 31.

Md., Baltimore—Improving streets as listed in Contr. 239-OANA, from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $62,857; Contr. 237-OCOANA, from A. Apicella, 224 Albermarle St., $8,312; Contr. 238-OANA, from Ryan Constr. Co., Real Estate Trust Bldg., Phila., $30,393. Noted June 7.

Virginia—State Hy. Dept., Richmond, 6.6 mi. concrete road Project F 166, Hanover Co., 35,874 cu.yd. excav., etc., and 11.07 mi. Project F 157, Charles City Co., 112,779 cu.yd. excav., etc., from Baker & Royer & Co., P. O. Box 601, Richmond, $270,316 and $409,361 respectively; 4.4 mi. concrete road Project F 247, Hanover Co., 5,935 cu.yd. excav., etc., from C. S. Luck & Sons, 1212 Brooks Ave., Richmond, $186,771; 6 mi. gravel road Project S 283, Prince Edward Co., 49, 245 cu.yd. excav., from Perkins & Barnes, Blackstone $47,870; 2 steel and concrete bridges over Craigs Creek, Project S 196, Craig Co., one 85 ft. steel truss and 3 concrete spans other one 85 ft. steel truss and two 30 ft. concrete spans, from Roanoke Iron & Bridge Co., Roanoke, $25,190. Noted May 24.

Alabama—State Hy. Dept., Montgomery, grading and surfacing 11.32 mi. road from Dublin to Orion, Federal Aid Project 74, Montgomery Co., alternate bids on (1) gravel surface (2) 9 in. concrete with sand-clay shoulders (3) sand-clay surface, from J. R. and J. B. Miller, Baconton, Ga., (1) $113,802 (3) $84,622; J. A. Peterson, Montgomery, (1) $159,162 (2) $284,811 (3) $90,096; R. D. Chambers & Co., West Point, Ga., (1) $141,046 (3) $77,556. Noted May 24.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, June 6, grading and gravel surfacing 11.5 mi. New Roads-Simmesport Highway, from Laiche & Miller, Plaquemine, $44,233. Noted May 24.

Ohio—Dept. Highways and Pub. Wks., Columbus, June 15, grading, bridging and paving with (1) brick (2) rein.-con. (3) Kentucky rock asphalt (4) waterbound macadam (5) bituminous macadam asphalt (6) bituminous macadam tar (a) 1.791 mi. Sect. "A-1" Bridgeport-Cadiz Rd., Belmont Co. (b) 3.827 mi. Sect. "A-2" Bridgeport-Cadiz Rd., Belmont Co. (c) 3.523 mi. Sect. "A-3" Bridgeport-Cadiz Rd., Belmont Co. (d) 0.443 mi. Sect. "Hillsboro" Milford-Hillsboro Rd., Highland Co. (e) 1.125 mi. Sect. "F" West Union-Bain-

Streets and Roads (Continued)

bridge Rd., Highland Co. **(f)** 0.761 mi. Sect. "Sinking" West Union-Bainbridge Rd., Highland Co. **(g)** 0.448 mi. Sect. "Hillsboro" Hillsboro-Washington C. H. Rd., Highland Co. **(h)** 7.155 mi. Sect. "O" Piketon-Hillsboro Rd., Highland Co. **(i)** 2.552 mi. Sect. "T" Mansfield-Norwalk Rd., Huron Co. **(j)** 2.923 mi. Sect. "N" Elyria-Twinsburg Rd., Lorain Co. **(k)** 0.576 mi. Sect. "I" Medina-Norwalk Rd., Medina Co., grading, etc. **(l)** 2.38 mi. Sect. "J" Mansfield-Millersburg Rd., Holmes Co. **(m)** 2.5 mi. Sect. "G" Ironton-Jackson Rd., Lawrence Co., from E. M. O'Neil Constr. Co., Youngstown, **(1a)** $130,906; Huntington Eng. Co., 1st Natl. Bank Bldg., Huntington, W. Va., **(2b)** $205,346; E. L. Reeb, Lima, **(3b)** $172,068 **(3c)** $149,405; W. E. Ringwold Co., Chillicothe, **(1d)** $22,585 **(1g)** $20,900; C. O. Baldwin, Hillsboro, **(4e)** $25,614 **(4f)** $12,154; Foy-Nixon Co., Columbus, **(4h)** $148,758; Gluss Bros., Hamler, **(2i)** $60,146; Wise Bros. and Burman, Elmore, **(5i)** $60,146 **(6l)** $60,146; H. J. Hart, Elyria, **(5j)** $65,265; Hill & Hill, Elyria, **(2k)** $20,823; D. G. Watson, Malinta, **(l)** $14,864; Weeks Constr. Co., Dayton, **(m)** $29,379. Noted June 7.

O., Cleveland Heights (Warrensville, P. O.)—Grading and paving with (1) asphalt, (2) brick, Woodridge and Oxford Rds., from Rieley Bros., The Arcade, Cleveland, (1) $37,929 (2) $44,989 and (1) $41,936 (2) $47,970 respectively; Quilliam Rd., from H. G. Herring, Pavers Exch., Society for Savings Bldg., Cleveland, (1) $48,543 (2) $56,394; Summit Park and Montford Rd., from Spence Bros., Pavers Exch., Society for Savings Bldg., Cleveland, (1) $15,366 (2) $18,938 and (1) $25,690 (2) $31,728 respectively.

O., East Liverpool—Concrete paving about 1.4 mi. River Rd., 18 and 20 ft., from Allison & Harris Constr. Co., East Liverpool, $48,000. Noted May 31.

Ill., Sandwich—Bd. Local Impvts., City Hall, rein.-con. paving Church St., (except center 18 ft.), from Trompeter & Sons, Yorkville, $37,849. Noted May 31.

South Dakota—State Hy. Comn., Pierre, June 12, grading 3.11 mi. Federal Aid Project 130 A, Custer Co., from Mattson & Olson, Rapid City, $51,805; 8.51 mi. Federal Aid Project 146 A, Corson Co., from W. Geddes, Ellendale, N. D., $35,329. Noted June 7.

Tex., Glen Rose—Somervell Co. grading and gravel surfacing 5.86 mi. State Highway 10 A, 12,360 cu.yd. gravel, 40,772 cu. yd. roadway and 14,852 cu.yd. earth excav., etc., from J. E. Harris Co., Alvarado, $30,516. Engrs. est. $35,000. Noted May 24.

Tex., Greenville—Hunt Co. bituminous top on gravel sub base and waterbound macadam base 3.7 mi. State Highway 39, from D. H. Purvis, Ft. Worth, $20,689, 7,240 cu.yd. crushed stone base, 5,430 cu. yd. gravel, 1,560 cu.yd. crushed stone for cover material and 22,800 gal. liquid asphalt to be furnished by county, $47,500, engrs. est. $75,000; 3.3 mi. State Highway 11, from Hunt Co., c/o O. P. McWhirter, co. judge, Greenville, $19,745, 7,000 cu.yd. crushed stone for base, 5,280 cu.yd. gravel, 1,000 cu.yd. crushed stone, for cover material, 22,000 gal. liquid asphalt, to be furnished by county, $40,000, engrs. est. $65,000. Noted May 17.

Tex., Paris—Lamar Co. grading and concrete paving 4.05 mi. State Highway 19, 5,399 cu.yd. roadway and 7,728 cu.yd. borrow excav., 36,856 sq.yd. concrete, from J. C. Field Co., Denison, $96,914, engrs. est. $110,000; grading and gravel surfacing 7.58 mi. State Highway 19, 16,359 cu.yd. roadway and 7,324 cu.yd. borrow excav., from McGuire & Cavender, Sherman, $12,166; 11,863 cu.yd. shipped gravel furnished by county, engrs. est. $54,205. Noted May 24.

Tex., Richmond—Ft. Bend Co. grading, etc., 15.14 mi. State Highway 3, 54,440 cu.yd. roadway, 127,220 cu.yd. borrow and 56,828 cu.yd. channel excav., from Gale Bros., Edna, $59,310. Engrs. est. $70,000. Noted May 24.

Tex., San Antonio—Bexar Co. grading, gravel surfacing and bituminous topping etc. 3.4 mi. State Highway 3, 32,328 sq.yd. bituminous macadam, 559 cu.yd. concrete, 22,973 cu.yd. roadway and 13,766 cu.yd. borrow excav., 48,662 lb. reinforcing 10,009 cu.yd. gravel, from Uvalde Rock Asphalt Co., City Natl. Bank Bldg., $59,947. Noted June 14.

Colorado—Bureau Pub. Roads, Denver, grading 4.764 mi. Ironton Sect. Red Mountain Natl. Forest Rd. Project, Ouray Co., from Rogers & Pickard, 1735 Stout St., Denver, $99,649; 5.51 mi. Cumbres Pass Natl. Forest Rd. Project, Conejos Co., from Harvey & Peabody, Sante Fe, N. M., $48,701. Noted June 7.

SUBWAY—NEW YORK

Bids were opened by Transit Comn., 49 Lafayette St., May 22, for Sect. 2 of Route 45, part of Bway.-4th Ave. Rapid Transit Ry., (A) P. McGovern, Inc., 50 East 42nd St., New York City (awarded contract); (B) F. L. Cranford, Inc., 149 Remsen St., Brooklyn; (C) Spencer, White & Prentis, 100 West 41st St., New York. The unit bids were as follows:

	A	B	C
70,000 cu.yd. earth excavation above mean high water	$14.00	$15.10	$17.00
96,400 cu.yd. earth excavation below mean high water	14.00	15.10	17.00
1,600 cu.yd. earth excavation for sewers, ducts and pipes	15.00	15.10	17.00
10,400 cu.yd. rock excavation	18.00	15.10	22.00
Maintaining, protecting and underpinning Syndicate Building No. 35-37 Nassau St (lump sum)	75,000.00	26,250.00	80,000.00
Maintaining, protecting and underpinning National Bank of Commerce Building, No. 31 Nassau St. (lump sum)	98,000.00	36,380.00	102,000.00
Maintaining, protecting and underpinning Western Union Building, No. 40 Broad St. (lump sum)	18,000.00	13,860.00	12,000.00
Maintaining, protecting and underpinning Wall St. Journal Building, No. 42-44 Broad St. (lump sum)	15,000.00	13,940.00	15,000.00
Maintaining, protecting and underpinning building, No. 54-56 Broad St. (lump sum)	5,500.00	7,600.00	14,000.00
Maintaining, protecting and underpinning building, No. 58-60 Broad St. (lump sum)	5,200.00	8,930.00	15,000.00
Maintaining, protecting and underpinning building, No. 62 Broad St. (lump sum)	3,000.00	4,600.00	8,000.00
Maintaining, protecting and underpinning Morris Building, No. 64-68 Broad St. (lump sum)	25,000.00	33,000.00	30,000.00
Maintaining, protecting and underpinning building, No. 74 Broad St. (lump sum)	6,200.00	7,480.00	12,000.00
Maintaining, protecting and underpinning building, No. 76 Broad St. (lump sum)	5,000.00	8,190.00	15,000.00
Maintaining, protecting and underpinning Maritime Exchange Building, No. 78-80 Broad St. (lump sum)	6,500.00	13,520.00	12,000.00
Maintaining, protecting and underpinning building, No. 82 Broad St. (lump sum)	3,100.00	5,250.00	8,000.00
Maintaining, protecting and underpinning building, No. 84 Broad St. (lump sum)	3,000.00	5,670.00	10,000.00
Maintaining, protecting and underpinning building, No. 86 Broad St. (lump sum)	3,500.00	5,670.00	12,000.00
Maintaining, protecting and underpinning building, No. 88 Broad St. (lump sum)	3,700.00	3,360.00	8,000.00
Maintaining, protecting and underpinning building, No. 90 Broad St. (lump sum)	7,500.00	6,300.00	15,000.00
Maintaining, protecting and underpinning building, No. 92-94 Broad St. (lump sum)	7,500.00	10,080.00	25,000.00
Maintaining, protecting and underpinning building, No. 96-98 Broad St. (lump sum)	6,500.00	9,680.00	22,000.00
Maintaining, protecting and underpinning BushTerminal Building, No. 100 Broad St. (lump sum)	1,200.00	15,000.00	7,500.00
Maintaining, protecting and underpinning Centennial Building, No. 110-122 Broad St. (lump sum)	4,200.00	46,400.00	45,000.00
Maintaining, protecting and underpinning Mutual Life Building, No. 28-38 Nassau St. (lump sum)	110,500.00	57,600.00	200,000.00
Maintaining, protecting and underpinning Mechanics and Metals Bank Building, No. 20 Nassau St. (lump sum)	50,000.00	44,950.00	100,000.00
Maintaining, protecting and underpinning U. S. Sub-Treasury Building (lump sum)	85,000.00	76,000.00	160,000.00
Maintaining, protecting and underpinning Mills Building, No. 15 Broad St. (lump sum)	64,000.00	54,450.00	150,000.00
Maintaining, protecting and underpinning building, No. 35-37 Broad St. (lump sum)	8,800.00	8,740.00	12,000.00
Maintaining, protecting and underpinning building, No. 39 Broad St. (lump sum)	5,500.00	5,700.00	8,000.00
Maintaining, protecting and underpinning International Telephone & Telegraph Building, No. 41 Broad St. (lump sum)	5,500.00	5,700.00	9,000.00
Maintaining, protecting and underpinning Combustion Engineering Building, No. 43-47 Broad St. (lump sum)	12,500.00	11,590.00	28,000.00
Maintaining, protecting and underpinning Post & Flagg Building, No. 49-51 Broad St. (lump sum)	8,000.00	14,000.00	25,000.00
Maintaining, protecting and underpinning Consolidated Stock Exchange Building, No. 63-69 Broad St. (lump sum)	17,000.00	33,000.00	35,000.00
Maintaining, protecting and underpinning building, No. 71 Broad St. (lump sum)	2,500.00	4,000.00	9,000.00
Maintaining, protecting and underpinning building, No. 73 Broad St. (lump sum)	2,300.00	4,400.00	9,000.00
Maintaining, protecting and underpinning building, No. 75 Broad St. (lump sum)	1,800.00	3,600.00	9,000.00
Maintaining, protecting and underpinning building, No. 77-79 Broad St. (lump sum)	3,900.00	8,000.00	18,000.00
Maintaining, protecting and underpinning building, No. 81 Broad St. (lump sum)	4,500.00	6,000.00	12,000.00
Maintaining, protecting and underpinning building, No. 91 Broad St. (lump sum)	3,300.00	3,500.00	5,000.00
Maintaining, protecting and underpinning building, No. 93-97 Broad St. (lump sum)	15,000.00	24,700.00	45,000.00
Maintaining, protecting and underpinning Fraunces' Tavern Building, No. 54 Pearl St. (lump sum)	5,000.00	9,660.00	25,000.00
Maintaining, protecting and underpinning building, No. 101-103 Broad St. (lump sum)	3,000.00	7,000.00	20,000.00
Maintaining, protecting and underpinning building, No. 105 Broad St. (lump sum)	4,200.00	7,400.00	20,000.00
Maintaining, protecting and underpinning building, No. 105½ Broad St. (lump sum)	5,800.00	11,200.00	30,000.00
Maintaining, protecting and underpinning building, No. 107 Broad St. (lump sum)	2,200.00	5,000.00	4,000.00
9,500 cu.yd. tunnel excavation	24.00	20.80	25.00
33,850 cu.yd. concrete masonry	19.00	24.75	35.00
70,000 sq.ft. rubbing to smooth finish the surface of concrete	.10	.15	.17
6,100 cu.yd. protective concrete masonry	19.00	24.75	25.00
200 cu.yd. rubble stone masonry	10.00	12.00	24.00
150 cu.yd. brick masonry	34.00	40.00	60.00
630 cu.yd. removal and disposal of old masonry	30.00	60.00	100.00
60 cu.yd. hollow terra cotta brick or tile	34.00	35.00	42.00
60 lin.ft. 4½x13-in. terra cotta flue lining	2.00	2.00	2.00
1,000 bbl. grout of portland cement	6.00	8.00	9.00
25 M.ft.B.M. tunnel timbering	125.00	300.00	125.00
40,500 sq.yd. waterproofing one ply	.90	1.25	2.00
8,500 sq.yd. waterproofing three ply	2.10	2.50	3.00
2,600 sq.yd. waterproofing six ply	3.70	3.50	5.00
2,500 sq.yd. waterproofing dry ply	.45	1.00	.90
6,800 cu.yd. waterproofing brick in asphalt mastic	43.00	45.00	85.00
2,000 lin.ft. 3-in. cast iron pipe and fittings	1.50	1.50	3.25
420 lin.ft. 6-in. cast iron pipe and fittings	2.50	2.00	4.25
2,800 lin.ft. 8-in. cast iron pipe and fittings	3.50	2.50	6.00
100 lin.ft. 10-in. cast iron pipe and fittings	4.10	3.50	8.00
100 lin.ft. 3-in. standard galvanized wrought-steel pipe	1.50	1.75	7.00
230 lin.ft. 4-in. standard galvanized wrought-steel pipe	2.00	2.00	13.00
150 lin.ft. 6-in. standard galvanized wrought-steel pipe	2.80	2.50	17.00
42,500 duct. ft. tunnel ducts	.30	.25	.35
2,000 duct. ft. 3½-in. fibre conduits	.50	.40	1.25

	A	B	C
170 sq.ft. asbestos lumber panels—wall bench duct manholes	1.00	.50	14.00
3,200 ton riveted steel	170.00	135.00	195.00
10 ton architectural iron and steel (stairs, ladders, checkered plates, pipe railing, etc.)	350.00	300.00	600.00
100 sq.ft. sliding doors with asbestos panels	6.00	2.00	12.00
4 counterbalanced emergency exit covers	400.00	300.00	1,000.00
2,070 ton steel beams and shapes	170.00	135.00	195.00
180 ton steel rods and bars	90.00	100.00	120.00
4 ton miscellaneous iron castings	200.00	250.00	250.00
2 ton miscellaneous iron furnishings	150.00	300.00	350.00
1,000 lb. special wire forms	.20	.30	.50
2,000 lin.ft. 1½ in. oak hand rail	.45	.75	.90
2,800 sq.ft. steel grating for ventilation	2.50	4.00	3.50
1,800 sq.ft. vault lights	2.00	4.00	3.50
5,100 sq.yd. sidewalk restored	3.00	4.50	6.00
10,700 sq.yd. roadways restored—asphalt	6.00	6.50	12.00
110 sq.yd. roadways restored—granite block	8.00	6.50	13.00
50 lin.ft. new 6-in. bluestone curb	2.00	2.50	3.00
350 sq.yd. roadways restored—wood block	8.00	7.00	14.00
500 lin.ft. new 8-in. granite curb	3.50	5.50	5.00
160 sq.yd. new sidewalk finish 3-in. thick	1.50	4.50	7.00
12,800 lin.ft. ¾-in. W.S. electric conduits	.30	.60	.60
3,000 lin.ft. in. W.S. electric conduits	.50	.60	1.00
1,050 cast iron outlet boxes	1.50	2.50	4.00
7 cast iron pull boxes	10.00	8.00	20.00
120 lin.ft. 6-in. cast iron pipes and fittings "extra heavy"	2.50	3.00	6.25
100 lin.ft. 3-in. cast iron pipes and fittings "extra heavy"	1.50	2.00	5.00
120 lin.ft. 4-in. cast iron pipes and fittings "extra heavy"	1.75	2.50	5.50
100 lin.ft. 8-in. cast iron pipes and fittings "extra heavy"	3.50	4.00	10.00
630 lin.ft. 15-in. vitrified pipe sewer	6.50	7.00	10.00
350 lin.ft. 18-in. vitrified pipe sewer	7.50	8.00	12.00
20 ton cast iron sewer pipe (straight pipe)	105.00	200.00	210.00
10 ton cast iron sewer pipe (special casting)	200.00	250.00	300.00
1,100 lin.ft. 3 ft. 6 in. x 2 ft. 4 in. reinforced concrete sewer	11.70	22.00	35.00
175 lin.ft. 3 ft. x 3 ft. reinforced concrete sewer	14.80	23.00	42.00
1,150 lin.ft. 4 ft. x 2 ft. 6 in. reinforced concrete sewer	15.60	25.00	42.00
100 lin.ft. 3 ft. 6 in. x 3 ft. 9 in. reinforced concrete sewer	14.80	30.00	50.00
400 lin.ft. 4 ft. x 4 ft. 3 in. reinforced concrete sewer	16.65	30.00	59.00
120 lin.ft. 4 ft. 3 in. x 5 ft. reinforced concrete sewer	18.30	40.00	68.00
210 lin.ft. 4 ft. 9 in. x 5 ft. reinforced concrete sewer	20.40	42.00	75.00
520 lin.ft. 4 ft. 6 in. x 2 ft. 10 in. reinforced concrete sewer	16.30	30.00	45.00
340 lin.ft. 5 ft. x 6 ft. reinforced concrete sewer	24.70	45.00	80.00
4 providing and maintaining temporary supports for electric railroad columns	1,900.00	2,500.00	3,000.00
150 lin.ft. water pipe 6 in.	1.00	2.00	3.25
100 lin.ft. water pipe 8 in.	1.50	3.00	4.00
900 lin.ft. water pipe 12 in.	2.00	3.00	5.00
100 lin.ft. water pipe 16 in.	2.50	5.00	10.00
100 lin.ft. water pipe 20 in.	3.00	10.00	17.00
20 service connections for water pipe	50.00	30.00	150.00
100 lin.ft. gas pipe 4 in.	1.00	2.50	3.00
1,300 lin.ft. gas pipe 6 in.	1.20	3.00	5.00
460 lin.ft. gas pipe 8 in.	1.80	3.00	6.00
100 lin.ft. gas pipe 10 in.	2.15	3.00	8.00
200 lin.ft. gas pipe 12 in.	2.50	3.50	10.00
100 lin.ft. gas pipe 24 in.	5.00	5.00	25.00
6,150 lin.ft. by-passing pipe 8 in. W.S.	8.00	5.00	13.00
100 lin.ft. by-passing pipe 12 in. W.S.	10.00	6.00	20.00
100 lin.ft. by-passing pipe 20 in. W.S.	15.00	10.00	30.00
150 lin.ft. by-passing pipe 12 in. W.S. on trestle or cable	10.00	10.00	25.00
175 lin.ft. by-passing pipe 20 in. W.S. on trestle or cable	17.00	15.00	28.00
130 lin.ft. cable suspension to support by-passing pipe over 16 in. in diameter	25.00	10.00	20.00
110 lin.ft. cable suspension to support by-passing pipe 16 in. or under in diameter	25.00	10.00	18.00
20 service connections for gas pipes	50.00	50.00	100.00
25 ton new cast iron hub & spigot pipe, straight	110.00	150.00	100.00
20 ton new cast iron hub & spigot pipe, special castings	215.00	200.00	250.00
120 lin.ft. high pressure fire system water pipe 8 in.	2.00	3.00	11.00
880 lin.ft. high pressure fire system water pipe 12 in.	3.00	3.50	14.00
220 lin.ft. high pressure fire system water pipe 16 in.	4.00	5.00	15.50
100 lin.ft. high pressure fire system water pipe 20 in.	5.00	10.00	24.00
25 ton new H.P. fire system C.I. spigot & groove pipe	150.00	150.00	150.00
20 ton new H.P. fire system C. I. spigot & groove pipe, "special casting"	270.00	200.00	250.00
120 lin.ft. steam pipe 6 in.	9.00	4.00	60.00
200 lin.ft. steam pipe 8 in.	10.00	6.00	70.00
120 lin.ft. steam pipe 15 in.	18.00	10.00	80.00
120 lin.ft. steam pipe 16 in.	19.00	10.00	90.00
2 service connections for steam pipes	150.00	200.00	425.00
100 lin.ft. new steel welded flanged steam pipe 6 in.	12.00	4.00	4.25
100 lin.ft. new steel welded flanged steam pipe 8 in.	15.00	5.00	6.00
100 lin.ft. new steel welded flanged steam pipe 15 in.	21.00	10.00	14.00
100 lin.ft. new steel welded flanged steam pipe 16 in.	23.00	12.00	15.50
100 lin.ft. air pipe 6 in.	1.50	4.00	10.00
100 lin.ft. new air pipe 6 in.	2.00	6.00	1.75
200 lin.ft. pneumatic mail tube 8 in.	6.00	4.00	6.00
1,350 lin.ft. pneumatic postal telegraph tube 2½ in.	2.50	1.00	8.00
250 lin.ft. pneumatic Western Union tube 2½ in.	2.50	1.00	10.00
350 lin.ft. new pneumatic Postal Telegraph tubes 2½ in.	1.00	1.00	6.00
100 lin.ft. new pneumatic mail tubes, straight pipe, 8 in.	6.00	4.00	5.00
100 lin.ft. new pneumatic mail tubes, curved pipe, 8 in.	11.00	8.00	15.00
100 lin.ft. new pneumatic Western Union straight and curved pipe, 2½ in.	1.00	1.00	6.00
71,000 duct. ft. electric ducts and conduits	.50	.40	1.00
8,450 lin.ft. wrought steel pipe electric ducts and conduits 2½ in.	.70	1.00	2.00
5,350 lin.ft. wrought steel pipe electric ducts and conduits 3 in.	.90	1.50	2.25
6,250 lin.ft. wrought steel pipe electric ducts and conduits 3½ in.	1.20	2.00	3.00
100 lin.ft. wrought steel pipe Edison conduit 2 in.	1.50	1.00	3.00
100 lin.ft. wrought steel pipe Edison conduit 2½ in.	2.00	1.25	3.75
950 lin.ft. wrought steel pipe Edison conduit 3 in.	3.25	1.50	4.00
500 lin.ft. wrought steel pipe Edison conduit 3½ in.	4.25	1.75	4.50
20 service connections for electric ducts	60.00	60.00	150.00
100 lin.ft. commercial cable duct 2 in.	.80	1.00	4.00
230 lin.ft. commercial cable duct 3 in.	1.20	2.00	5.00
100 lin.ft. commercial cable duct 4 in.	2.00	2.50	8.00
120 lin.ft. commercial cable duct 6 in.	3.00	3.00	10.00
20 service boxes on relocated duct lines	100.00	150.00	250.00
10 junction boxes on relocated duct lines	500.00	250.00	350.00
10 additional junction boxes on relocated duct lines	500.00	300.00	400.00
Extended totals	$5,976,086	$6,221,544	$8,844,025

Streets and Roads (Continued)

Colo., Denver—Grading, concrete curbing and surfacing 5 mi. North Denver Impvt. Dist. 31, 30 ft. roadway, from Western Constr. Corp., 33rd and Blake Sts., $86,436. Engrs. est. $107,346.

Nevada—State Hy. Dept., Carson City, grading surfacing, etc. Halleck-Deeth Rd., Elko 1-C, from W. Hoops, Hollister, Idaho, $72,750.

Wash., Seattle—Paving Ave. N., et al., from D. H. Traphagen, Walker Bldg., 6,250 sq.yd. 7 in. rein.-con., $1.85, 850 lin.ft. curb $0.65, 6,400 lin.ft. concrete curb $0.35, 8,800 cu.yd. excav. $0.60 and 7,500 cu.yd. subgrade $0.70, total $66,035.

Calif., Long Beach—Paving streets in Belmont Heights Addition, 5 in. concrete from California Constr. Co. 58 2nd St., San Francisco, $572,586. Noted June 14.

Calif., Los Angeles—Los Angeles Co., improving Slauson Ave. between Central and Compton Sts., shaping 10,983 sq.yd. roadway, removing 1,150 cu.yd. old macadam, replacing 10,983 sq.yd. old macadam, 1,400 cu.yd. disintegrated granite base, 9,086 sq.yd. 3 in. willite top, etc., from G. R. Curtis, 2440 East 26th St., $32,165.

Calif., Oakland—Supervs. Alameda Co. grading, concrete curbing, guttering, sidewalks and paving roads in vicinity of county hospital grounds, 65,000 sq.ft. 5 in. concrete, etc., from J. H. Fitzmaurice, 698 Walla Vista Ave., $22,352. Noted June 7.

Calif., Turlock—Improving West Main St., from A. Teichert & Sons, Ochsner Bldg., Sacramento, 90,000 sq.ft. grading at $0.03, 83,000 sq.ft. 1½ in. warrenite on 3 in. asphaltic base $0.206, 6,900 sq.ft. concrete gutter $0.24. Noted May 31.

CONTRACTS AWARDED

Massachusetts—State Hy. Dept., Boston, paving 1.399 mi. Project 103, and 16,910 sq.yd. rein.-con., to C. B. Lindholm, Pittsfield, $96,712. Noted May 24.

Mass., Boston—Paving 0.5 mi. East Concord St. from Albany to Washington Sts., 30 ft. wide, sheet asphalt, to Central Constr. Co., 228 Southampton St., $34,645; 0.5 mi. Massachusetts Ave. from Albany to Southampton St., 40 ft., granite block, to M. F. Gaddis, 5 Paulding St., $24,984.

Rhode Island—State Bd. Pub. Roads, State House, Providence, 3.13 mi. rein.-con. paving Federal Aid Project 17, Div. A, in North Providence and Lincoln, Highway Contr. 2304, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $153,986. Noted May 24.

N. Y., Cohoes—Paving 17,000 sq.yd. Vliet St., recut granite block, to T. F. Gratton, Remsen St., $29,710.

N. Y., Elmira—Chemung Co. will construct ½ mi. highway in town of Ashland, 12 ft., bituminous top, limestone asphalt or tarvia binder, $3,000, 2 mi. in Baldwin, 12 ft. bituminous top local stone, tarvia binder, $12,000, ¾ mi. in Big Flats, 16 ft., bituminous macadam local stone base, limestone top, tarvia binder, $10,000 ¾ mi. in Catlin, 12 ft., bituminous macadam, local stone base and top, tarvia binder, $9,000, ¾ mi. in Chemung, 14 ft., bituminous macadam local stone base and top, tarvia binder, $14,000, 1 mi. in Elmira, 16 ft., bituminous top, limestone, tarvia binder, $10,000, 1 mi. in Erin, 12 ft., bituminous macadam, local stone base, limestone top, tarvia binder, $12,000, 1 mi. in Horseheads, 16 ft., bituminous macadam, local stone base, limestone top, asphalt binder, $18,000, 1 mi. in Van Etten, 12 ft., bituminous macadam, local stone base, limestone top, tarvia binder, $14,000, 1 mi. in Veteran, 16 ft., bituminous top, local stone base, tarvia binder, $10,000; grading 2 mi. in Southport, 12 ft., $15,000, by day labor under supervision of H. T. Gage, co. supt. highways.

N. Y., Fulton—Improving and asphaltic concrete paving several streets, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $110,675. Noted May 31.

N. J., East Orange — Mayor and Boro Council, to Franklin Contg. Co., 20 Washington Pl., Newark, furnishing and applying 60,000 gal. bituminous road binder on streets, $0.11 per gal., national paving on concrete Greenwood Ave. $12,164, Oak St. $11,492, Tremont Ave. $3,878, Freeman Ave. $10,241, North 19th St. $29,787; to Standard Bitulithic Co., 50 Church St., New York City, warrenite bitulithic paving on concrete Grand Ave. $10,994, Eaton Pl. $14,676. Noted May 24.

N. J., Newark—T. L. Raymond, dir. Dept. Streets & Pub. Impvts., to Newark Paving Co., 398 Adams St., sheet asphalt paving 18,000 sq.yd. Lafayette St. $66,607, 2,100 sq.yd. 4th St. $7,606, 2,870 sq.yd. Peck Ave. between 2nd and 3rd Aves., $11,485, 3,433 sq.yd. Richlieu Pl. $17,940, 5,500 sq.yd. South 15th St. $22,233; to J. W. Costello, City Hall, (representing city) sheet asphalt (Burner method) paving 1,200 sq.yd. Belmont Ave. $1,097, 500 sq.yd. Madison St. $460, 2,800 sq.yd. Park St. $2,782, 3,200 sq.yd. Pennington St. $3,044, 8,800 sq.yd. Somerset St. $8,450; to Standard Bitulithic Co., 50 Church St., New York City, 1,900 sq.yd. Clinton St. $1,901, 13,000 sq.yd. North 7th St. $13,263, 1,900 sq.yd. Nursery St. $1,929, 22,000 sq.yd. Summer Ave. $22,438, 1,050 sq.yd. Isabella Ave. $5,216, 1,060 sq.yd. Fessenden Pl. $6,066, 390 sq.yd. Ridgewood Ave $3,480; to J. B. Gilligan Casey Co., 919 Broad St., sheet asphalt paving 4,100 sq.yd. Cedar Ave. $16,206, 4,700

Streets and Roads (Continued)

sq.yd. Speedway Ave. $20,980; to Jannerone Contg. Co., Belleville, curbing, grading and flagging 460 lin.ft. 2nd Ave. $3,174, 1,500 lin.ft. Peck Ave. between 1st and 2nd Aves., $7,135. Noted May 24.

N. J., New Brunswick—Middlesex Co. asphalt paving 1 mi. River Rd. and ¾ mi. New Market-Stelton Rd., to A. Keyes, Woodbridge, $34,289 and $27,019 respectively.

West Virginia — State Rd. Comn., Charleston, cold road oil surface application incl. furnishing and applying cover coat on 17.1 mi. Projects 2099, 2101, 33, 24 and 2102, Preston Co., 2 mi. Grafton Pike, Project 81, Taylor Co., and 12.7 mi. Projects 91, 27, 16, 2107 and 2108, Barbour Co., all 18 ft., to Atlantic Refining Co., 291 Bway., New York City, $9,573, $2,396 and $9,027 respectively; grading 2.5 mi. Glovers Gap-Wetzel Co. line Rd., Project 3275, Marion Co., and 1.2 mi. Wheeling-Fairmont Turnpike, Project 3263, Wetzel Co., both 18 ft., to Wetzel Constr. Co., New Martinsville, $60,798 and $27,215 respectively, 4.5 mi. Northwestern Turnpike, Project 3203 C, Preston Co. and 5 mi. Northwestern Turnpike, Project 3203 F, Preston Co., both 18 ft., to W. J. and J. T. Gephart, Elkins, $119,898 and $112,215 respectively, 9.4 mi. Ranger-Harts Rd., Project 3169, Lincoln Co., 18 ft., to P. C. Minotti, Logan, $241,-703, 2 mi. road from end of Project 92 to Wellsburg, Project 3077, Brooke Co., 18 ft., to F. Robinson, New Cumberland, $31,908, 12 mi. Racine-Whitesville Rd., Projects 3104 and 3205 B, Boone Co., 18 ft., to J. M. Cain & Co. and McArthur & Hood, Huntington, $119,580, 8 mi. Melissa-Salt Rock Rd., Project 3155, Cabell Co., 18 ft., to Gillespie & Werninger, Huntington, $113,-763, 6 mi. Pocatalico-Jackson Co. line Rd., Project 3259, Kanawha Co., 18 ft., to Harley & Caldwell, Tell City, Ind., $118,255, 2 mi. River Rd., Project 3086 B, Marshall Co., 18 ft., to Berry & Sons, Moundsville, $21,-801, 5 mi. Parsons-Mackeysville Rd., Project 3143 B, Tucker Co., 18 ft., to Keeley Constr. Co., Clarksburg, $175,397, grading and concrete paving 1.92 mi. Jane Lew-Harrison Co. line Rd., Project 3255, Lewis Co., 18 ft., to Seiple-Wolfe Constr. Co., Youngstown, O., $89,188, 1.43 mi. Upshur-Clarksburg Rd., Project 3238, Upshur Co., 18 ft., to Marshall & Gillooley, Elkins, $62,-913; concrete paving 2.6 mi. Cairo-Nutter Farm Rd., Project 3115 B, Ritchie Co., 18 ft., to W. A. Wilson & Son, St. Marys, $96,-446, 3.5 mi. Monitor Junction-Rossmore Rd., Projects 89 and 3228, Logan Co., 18 ft., to Coda-Nash Co., Huntington, $167,961, 2 mi. Ripley-Cottageville Rd., Project 3074 A, Jackson Co., 18 ft., to Karr & Karr, Ripley, $58,290; grading and paving with bituminous macadam 3.13 mi. Webster-Barbour Co. line Rd., Project 3224, Taylor Co., 18 ft., to R. T. Gray & Co., 817 Salt Springs Rd., Youngstown, O., $128,415, 1.84 mi. Lewis-Putnam Co. line Rd., Project 3286, Kanawha Co., 18 ft., to Abbott Bros., 316 Dickinson St., Charleston, $61,428, 6.313 mi. Crab Orchard-Amigo Rd., Project 3239, Raleigh Co., 18 ft., to O. C. Young, Beckley, $253,310, 4.46 mi. Good Hope-Lewis Co. line Rd., Project 3225 C, Harrison Co., 18 ft., to Kester Constr. Co., Nutter Fort, $206,494; rock asphalt paving 1.3 mi. Northwestern Turnpike, Project 3116 B, Wood Co., 18 ft., and 2.58 mi. Gandeeville Walton Rd., Project 3168 A, Roane Co., 18 ft., to C. V. Rector, Lima, O., $53,440 and $94,022 respectively; bituminous macadam paving 4.77 mi. Kingwood-Reedsville Rd., Project 1127 S, Preston Co., 18 ft., to Jones Constr. Co., Lisbon Rd., Salem, O., $87,306, 5.3 mi. Ansted-Falls Dist. Line Rd., Project 3038, Fayette Co., 18 ft., to Gilbert Constr. Co., Ansted, $175,834; grading and gravel surfacing 3 mi. River Rd., Project 3082 B, Wetzel Co., 18 ft., to Morris & Riggs, Sistersville, $100,630. Noted May 24.

S. C., Sumter—Sumter Co. asphaltic concrete paving 4 mi. Sumter-Camden Rd., to Harles-Thrash Constr. Co., Florence, $96,054; constructing 1.85 mi. Mayesville Rd. to Powell Paving Co., Palmetto Bank Bldg., Columbia, $65,110, 4 creosoted bridges on foregoing to South Carolina Constr. Co., Columbia, $8,912. Noted June 7.

Ala., Florence—Paving various streets, 75,000 sq.yd. rock asphalt, to Kirkpatrick & Hitchcock, Florence, $89,173. Noted May 31.

Kentucky — State Hy. Dept., Frankfort, plans paving 1 mi. Georgetown-Lexington Rd., State Project 5, Fayette Co. This is an experimental section and will be built by force account. J. S. Boggs, state highway engr.

Kentucky—State Rd. Dept., Frankfort, surfacing with bank gravel 13.1 mi. Earlington-Dawson Springs Rd., State Project 55, Sect. A, Hopkins Co., to N. E. Stone, Madisonville, using concrete pipe $255,095, 9.358 mi. Hopkinsville-Gracey Rd., State Project 1, Sect. C, Christian Co., to McQuarry Bros., Hopkinsville, using concrete pipe $192,684; rein.-con. surfacing 9.352 mi. Lexington-Covington Rd., State Project 5, Sects. A and B, Kenton and Boone Counties, to J. Wrol Co., Dayton, O., using concrete pipe $316,789; grading 6.763 mi. Pikeville-Williamson Rd., State Project 36, Sect. C, Pipe Co., to N. K. Snead Co., Camp 201 near Cincinnati & Ohio R.R., Huntington, W. Va., using concrete pipe $123,093; reconstructing 7 mi. Maysville-Lexington Rd., Mason Co., to Bates-Paynter Co., Danville, $47,511. Noted June 7.

Ky., Paducah—Bd. Pub. Wks., 67,000 sq. yd. concrete paving, 9,000 lin.ft. curbing, etc., to Yancey & Johnson, Paducah, $170,-000. Noted June 14.

O., Bellaire—G. T. Kreglow, dir. Pub. Serv., paving Belmont St., 4 in. brick on 6 in. concrete, to Tatgenhorst & McLaughlin, East Liverpool, $46,406. Noted May 17.

O., Cleveland — Cuyahoga Co. grading, guttering and vitr. brick paving 18,440 sq. yd. Snow Rd., to Freshwater Constr. Co., Natl. Bldg., $116,727. Noted June 14.

O., Cleveland—Grading, curbing and paving 12,400 sq.yd. West Blvd. extension, vitr. brick on concrete, to Baldwin Bros., 4500 Euclid Ave., $64,084. Noted June 14.

O., Cleveland — Grading, curbing and paving Maryland Ave., brick, to Enterprise Paving & Constr. Co., 8444 Bway., $7,865; West 24th St. and Behrwald Ave., to Roehl Bros. Paving & Constr. Co., West 25th St. and Clark Ave., $19,444; Curtis Ave. and repaving Windsor Ave., asphalt, to Cleveland Trinidad Paving Co., The Arcade, $6,596 and $20,746 respectively. Work involves 1,100 lin.ft. stone curb and 4 in. tile drain gutter, 7,100 sq.yd. asphalt, 3,745 sq.yd. vitr. brick on concrete, etc.

O., Cleveland Heights (Warrensville P. O.)—Grading and paving Sects. 3 and 4 Lee Rd., asphalt on concrete, to Bentley Bros., Union Bldg., Cleveland, $27,850.

O., Shaker Heights (Cleveland, P. O.)—Grading, curbing and asphalt paving Norwood and Normandy Rds., to Bentley Bros., Union Bldg., Cleveland, $114,386; Daleford Ave., East 157th and East 159th Sts., to Cleveland Trinidad Paving Co., The Arcade, $50,242, $18,164 and $39,620 respectively. Noted May 17 and June 7.

O., Warren—Brick paving 1.4 mi. Highland Ave., 40 ft., to Smith Eng. Co., Warren, $50,411, engrs. est. $62,000; Forest St., to F. Geiger, Warren, $48,476, engrs. est. $73,000.

Ind., Jeffersonville—Clark Co., 8.81 mi. Wm. D. Taylor Rd., Owen and Washington Twps., to J. Smith, 616 Illinois Ave., $71,-488. Engrs. est. $85,187. Noted June 14.

Michigan — State Hy. Dept., Lansing, grading and surfacing, etc., 1.342 mi. State Trunk Line Rd. 11-32, Sect. B, 14,303 sq.yd. concrete, 8,024 cu.yd. earth excav., to New Era Road Building Co., New Era, $28,399; state to furnish cement.

Michigan — State Hy. Dept., Lansing, grading, surfacing, etc., 1.407 mi. State Trunk Line Rd. 34-2, Sect. A, 16,527 sq.yd. concrete, 5,291 cu.yd. earth excav., and 1.345 mi. State Trunk Line Rd. 34-6 and 64-1, 11,858 sq.yd. concrete, 6,355 cu.yd. earth excav., to W. S. Johnson Constr. Co., Hicksville, O., $27,422 and $26,189 respectively. Cement furnished by State. Noted June 7.

Michigan — State Hy. Dept., Lansing, grading and surfacing 3.487 mi. State Trunk Line Rd., 27-16, Sect. A., to J. Porath, 35 McGraw Bldg., Detroit, 11,542 cu.yd. earth excav. $0.60, 270.3 cu.yd. concrete $16, 40,988 sq.yd. rein.-con. pavement $1.65, etc., total $81,081; cement furnished by state.

Mich., Coldwater—Branch Co. Rd. Com., grading and gravel surfacing Assessment Dist. Rd. 35, 9 ft., 4 mi., to E. B. Gifford, Coldwater, $17,893, 3 mi., to H. A. Drake & Son, Battle Creek, $10,938; Assessment Dist. Rd. 36, 9 ft., 3 mi., to M. I. Coffman, Coldwater, $11,766, 3 mi., to E. B. Gifford, Coldwater $13,712.

Wisconsin—State Hy. Comn., Madison, grading, surfacing, etc., to Chernus Constr. Co., Minneapolis, Minn., Bruce-Radisson Rd., State Project 1005, Rusk Co., 12,500 cu.yd. earth excav. $0.35, gravel surfacing, lump sum, $2,459, etc., total $24,086; to A. F. Lehrer Constr. Co., Bayport, Minn., Wilson-Knapp Rd., Project 328, St. Croix Co., 7,238 cu.yd. earth excav. $0.46, gravel surfacing, lump sum, $3,540, etc., total $15,-966, Baldwin-Knapp Rd., Project 330, St. Croix Co., 12,544 cu.yd. excav. $0.38, gravel surfacing, lump sum $2,936, etc., total $17,-998; to W. E. Johnson & Son, Augusta, Chelsea-Westboro Rd., Project 331, Taylor Co., 17,008 cu.yd. earth excav. $0.49, gravel surfacing, lump sum. $9,480, etc., total $27,009; to Fitch & Becka, 85 Western Ave., Minneapolis, Minn., graveling and tonsoiling Couderay-Hayward Rd., Project 263, Sawyer Co., $26,365; to J. E. Hinman, Glenwood City, 45 ft. span concrete deck girder, on Project 328, St. Croix Co., $4,296.

Wisconsin—State Hy. Comn., Madison, grading, gravel surfacing, etc., to W. E. Johnson & Son, Augusta, Niellsville-Humbird Rd., Project 467, Clark Co., $4,159. Niellsville-Humbird Rd., State Project 1026, Clark Co., $16,104; Hayward-Minog Rd., State Project 1034, Washburn Co., by day labor.

Wisconsin — State Hy. Comn., Madison, improving New Lisbon-Mauston-Kilbourn Rd., Project 280, Juneau Co., to W. E. Ule, Stevens Point, 8,933 sq.yd. concrete surfacing $1.54, etc., total $40,329. Noted May 31.

Wis., Fond du Lac—Fond du Lac Co., grading, etc., to M. Fisch, Kilbourn, Rogersville-Eldorado Rd., 15,274 cu.yd. excav. $0.58, etc., total $17,177; to Muth & Knechtel, Manitowoc, Seven Mile Creek-Woodhull Rd., 8,442 cu.yd. earth excav. $0.71, etc., total $15,210; Eden-Armstrong-County Line Rd., 17,766 cu.yd. earth excav. $0.54, etc., total $14,860; Fairwater-Waupun Rd., 30,320 cu.yd. earth excav. $0.53, etc., total $34,428.

Wis., South Milwaukee — Paving, etc., Rawson Ave., to Dean Constr. Co., 383 East North Ave., Milwaukee, 4,500 cu.yd. earth excav. $1.40, 19,800 sq.yd. vibrolithic concrete $2.84, 530 cu.yd. concrete in bridge $26. Noted June 7.

Ia., Clarinda—Page Co., grading 12.31 mi. Federal Aid Project 137, 320,194 cu.yd. excav., and Federal Aid Project 178, 309,830 cu.yd., to G. W. Condon, Farnam Bldg., Omaha, Neb., $0.18 per cu.yd., totals $57,635 and $55,733 respectively. Noted May 31.

Ia., Waterloo—To Bryant Paving Co., Waterloo, 12,200 sq.yd. concrete, 2,300 sq. yd. brick between street car tracks, 15,400 sq.yd. asphalt resurfacing, 8,300 lin.ft. concrete curb and gutter, $84,000. Noted May 24.

Minn., Fairmount—W. M. Canfield, aud. Martin Co. gravel surfacing 30,034 cu.yd. Jobs 2305 to 2310 inclusive, to W. Wetkamp, Welcome, $28,949. Noted May 31.

Minn., Minneapolis—A. P. Erickson, aud. Hennepin Co., grading, etc. Project 2317, Rd. 6, to J. J. and M. S. Mergens, 400 Temple Court, $58,949. Noted May 31.

Kan., Liberal—Seward Co. 4.499 mi. earth and sandclay road on Great Plain Highway, 26 ft., Federal Aid Project 153, to Bangs & Le Mommer, Liberal, $25,741.

Kan., Russell—Street improvements, 6,050 sq.yd. 3 in. vertical fibre brick on 5 in. base, to Cook & Ranson, Ottawa, $3.28 per sq.yd., etc., total $23,534. Noted May 17.

South Dakota—State Hy. Comn., Pierre, grading 5.58 mi. Federal Aid Project 109, Pennington Co., to H. Pickus Constr. Co., Sioux City, Ia., $38,831; graveling 5.99 mi. Federal Aid Project 54, Grant Co., to H. R. Phillips, Watertown, $10,835. Noted June 7.

Montana — State Hy. Comn., Helena, gravel surfacing 13.92 mi. Federal Aid Project 188-B, Big Horn Co., to Wickham Bros., Lovell, Wyo., 100,595 cu.yd. excav. $0.26, 329 cu.yd. concrete $32.50, 20,716 sq.yd. crushed gravel $2.20, etc., total $92,-266; 3.04 mi. Federal Aid Project 201, Gallatin Co., to Pioneer Constr. Co., Bozeman, 5,407 sq.yd. crushed gravel $2.24, 33 cu.yd. concrete $28, etc., total $22,778.

Missouri—State Hy. Dept., Jefferson City, gravel surfacing 3.163 mi. State Project Route 16, Sect. 37, 16 ft., Wright Co., to Summerfield Jones Co., Springfield, $43,955.

Tex., Ft. Worth—Tarrant Co. grading and gravel surfacing 9.51 mi. Forest Hill-Redon Rd., 14 ft., to Tarrant Co., Court House, Ft. Worth, $35,000. Noted May 24.

Wash., Chehalis—Lewis Co., grading and clearing right of way on 2 mi. National Park Highway, Salkum east, to G. Banderet, Bryn Mawr, $39,299.

Wash., Seattle—Paving Latona Ave., et al, to Fiorito Bros., 3950 6th St., N.W., 2,125 sq.yd. 5 in. asphalt $2.80, 5,000 sq.yd. 6 in. concrete $1.70, 4,400 sq.yd. 7 in. concrete $1.85, 1,575 cu.yd. asphaltic concrete curb $0.65, 3,600 lin.ft. concrete curb, $0.40, 4,000 cu.yd. subgrade $0.70, etc., total $83,504 3rd Ave. W., et al, to Olympic Constr. Co., 1326 Northlake Ave., 28,420 sq.yd. 6 in. concrete $1.65, 23,640 sq.yd. 7 in. concrete $1.90, 2,850 lin.ft. asphaltic concrete curb $0.70, 15,200 lin.ft. concrete curb $0.40, 5,000 cu.yd. excav. $0.50, 7,000 cu.yd. subgrade $0.60, total, $92,645.

Ore., Portland—To C. G. Randles, Portland, paving Longoy St. from 9th to 12th Sts., 1,703 cu.yd. earth excav. $2, 6,300 sq.ft. concrete or asphalt sidewalk, $0.25, 1,100 ft. 4 x 18 curb $0.80, 600 ft. 6 x 18 curb $1.75, 2,100 sq.yd. oiled macadam 10 in. thick $2.75, 7,000 sq.yd. 4 in. concrete pavement $2.70, etc., total $47,210. Engrs. est. $52,957.

California—State Hy. Comn., Sacramento, grading and concrete paving highway between Fish Canyon and Azusa, Los Angeles Co., to W. D. McCray, American Bank Bldg., Los Angeles, $42,348. Noted May 24.

Streets and Roads (Continued)

Calif., Los Angeles — Grading, curbing, guttering, walks, house sewers and paving Francis St. between Hoover and Vermont Sts., 103,121 sq.ft. warrenite bitulithic, etc., to Los Angeles Paving Co., 2900 Santa Fe Ave., $33,503.

Calif., Los Angeles — Los Angeles Co. paving with 8 in. concrete Alameda St. between south city limits of Compton and north city limits of Wilmington, to G. R. Curtis, 2440 East 26th St., $148,965. Noted May 17.

Calif., Merced—Improving portions K, M and 26th Sts., etc., 220,925 sq.ft. grading, 197,630 sq.ft. paving, 17,054 sq.ft. concrete gutter, etc., to Valley Paving & Constr. Co., P. O. Box 563, Visalia, $58,000. Noted June 7.

Calif., Oroville — Butte Co. improving Humboldt Rd., Sect. B, 28,000 cu.yd. excav., 1,690 cu.yd. dry rubble retaining walls, to Cole & Simpson, Kerman, $40,000. Noted May 10.

Calif., San Diego—Common Council paving 30th St., 281,941 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete, etc., to California Constr. Co., Union Bldg., $30,049. Noted June 14.

Calif., San Rafael—Supervs. Marin Co., grading and constructing corrugated iron culverts on Manzanita and Bolinas Rds., to S. P. Brownlee, San Rafael, $25,597. Noted May 24.

Que., Montreal—City will build 12,300 ft. St. Denis St., 56 ft., 809 ft. Soulanges St., 33 ft., and 1,524 ft. Rozel St., 33 ft., asphalt, by day labor. $220,395, $7,811 and $14,625 respectively. J. E. Gauthier, asst. city clk.

Que., Montreal — Paving 20,000 sq.yd. Rouen St., asphalt, to Bernard Brault Ltd., 2855 Rosemount Blvd., $104,470; 24,280 s.yd. Papineau Ave., asphalt, to Sicily Asphaltum Paving Co., 60 St. Viateur St., $108,089; 1,340 ft. Northcliffe Ave., 30 ft., block and asphalt, to Quinlan Robertson & Janin Ltd., 52 Duluth Bldg., $28,055; 2,250 ft. sidewalks, 1st Ave., and 3,200 ft. Letourneaux St., both 5 ft. wide, to St. George & Gauvreau Ltd., 127 Stanley St., $5,370 and $7,777 respectively; 8,248 ft. sidewalk on Cadillac St., to F. Lapan, 601 Lacordaire St., $21,179. Noted May 31.

Ont., Cornwall—Counties of Stormont, Dundas and Glengarry, May 8, for 14 mi. waterbound, 1.75 mi. bituminous, 1 mi. waterbound or bituminous macadam, 2 mi. gravel, 4.5 mi. earth road, 6.5 mi. grading, culverts, etc., to McLean & Stidwell, Cornwall, Contrs. 37, 39, 42, 44 and 47, $9,668 (asphalt), $6,865, $8,300, $8,491 and $15,913 respectively; to F. M. Eagleson, Winchester, Contrs. 32, 35 and 36, $18,783, $7,000 and $6,392 respectively; to J. B. Wilkinson, Port Hope, Contrs. 34, 40, 41 and 43, $5,433, $4,081, $7,348 and $4,910 respectively; to McIntosh & McDougall, Cornwall, Contrs. 33 and 38, $27,069 and $25,098 respectively, to Nephew & McMillan, Finch, Contr. 45, $1,053; Contr. 46, south end to McLean & Stidwell, Cornwall, $12,528, north end to W. J. McCallum, Apple Hill, $24,911.

Ont., Hamilton—Wentworth Co. will expend $130,000 on improving County Rds. 2, 3, 4, 5, 7, 14, 15, 22, 24, 26, 27, 31, 33, 34 and 37. Work involves 3.25 mi. macadam, gravel, maintenance and repairs, grading and ditching, culverts, concrete bridges, etc. Work will be done by day labor. H. A. Lumsden, co. engr.

Ont., Sandwich — Essex Co., rein.-con. paving 2 mi. road in Sandwich Twp., to Pettypieces, Ltd., Windsor, $2.63 per sq.yd., 0.75 mi. in Mersea Twp., to Check Contg. Co., 981 McDougal St., Windsor, $2.79 per sq.yd. Both 18 ft. wide. Engrs. est. $85,000. Noted May 24.

Ont., Toronto—Paving with asphalt on 8 in. concrete, brick block gutters and concrete curbs, 4,800 ft. Kingston Rd. from Queens St. to Dixon Ave. and from Main St. to Victoria Park Ave., 46 ft., to Kilmer & Barber, 24 Adelaide St. W., $18,085 and $66,114 respectively; from Dixon Ave. to Main St. will be done by day labor, $88,850. R. C. Harris, city engr.

Industrial Works

PROPOSED WORK

Mass., Boston—Chamberlain Garage, Inc., c/o L. Joselyn, archt., 339 Newbury St., had plans prepared and takes bids in summer, 5 story, 90 x 180 ft. garage, rein.-con., steel frame, wood pile foundation, Stonehole St. To exceed $250,000. Noted May 31.

Mass., Cambridge (Boston P. O.)—Essex Brass Fdry. Co., plans 2 story foundry, rein.-con. and brick, plain foundation, 1st St. To exceed $100,000. Engineer and architect not selected.

Conn., Hartford—R. G. Miller, Bloomfield, having plans prepared by W. D. Johnson Co., 174 Bond St., Hartford, 2 story, 50 x 80 ft. creamery, brick, plain foundation, Barbour and Earl Sts., here. $60,000.

Conn., Waterbury—H. S. Coe, Inc., 18 Freight St., having plans prepared by T. M. Freney, 51 Leavenworth St., 2 story, 40 x 200 ft. warehouse, brick and steel, plain foundation, Freight St. $70,000.

N. Y., Brooklyn—B. A. James, c/o B. Driesler, archt., 153 Remsen St., soon takes bids 100 x 200 ft., brick and concrete garage, plain foundation, Empire Blvd. $75,000.

N. Y., Endicott—Chamber of Commerce Com. and Citizens Gas Com. plan modern gas manufacturing plant. $450,000. Address J. H. Kelly, c/o Chamber of Commerce Com.

N. Y., Fonda—Standard Oil Co. of New York, 26 Bway., New York City, plans garage, warehouse and office building, etc., West Main St., here. $250,000.

N. Y., New York—Gottfried Baking Co., 534 East 72nd St., soon takes bids 5 story, 50 x 100 ft. bakery, brick, steel and concrete, plain foundation, East 71st St. W. H. Gompert, 171 Madison Ave., archt. L. S. Beardsley, 116 West 39th St., engr.

N. Y., Rochester—New York Canners Inc., 75 State St., plans rebuilding plant, destroyed by fire. $90,000. Engineer and architect not selected.

N. Y., Schenectady—General Electric Co., River Rd., plans 3 story, brick, concrete and steel factory, west end of present plant. $125,000.

Pa., Altoona—Altoona Factories Co., Chamber of Commerce, plans 3 story and basement, 90 x 120 ft. factory, steel and concrete, Industrial Ave. $150,000. W. A. Hoyt, Hutchinson Bldg., archt. Dixon Motor Truck Co., 2501 Beale Ave., lessee.

Pa., Ferndale—Trabold Motor Co., Railroad St., Johnstown, plans 2 story, 90 x 220 ft. steel and concrete plant, Clay and Ferndale Sts., here. $100,000. A. Trabold, pres.

Pa., Marcus Hook — Sun Co., Finance Bldg., Phila., plans to rebuild refinery here, recently destroyed by fire. $50,000. Architect not announced.

W. Va., Wheeling—West Virginia Match Co., plans factory, $300,000. Engineer and architect not selected.

S. C., Greenville—Southern Worsted Corp. having plans prepared by Lockwood, Greene & Co., Piedmont Bldg., Charlotte, N. C., 1 story, 40 x 80 ft. power house. $40,000.

Fla., Tampa—Swann Terminal Co., 314 Madison St., having plans prepared 5 story warehouse and office, 300,000 ft. floor space, rein.-con. and steel, at Swann Terminals on Estuary. $500,000. J. T. Swann, mgr.

Ala., Birmingham—Birmingham Warehouse Co. plans 100 x 100 ft. warehouse, about 10 story. $2,340,000. Engineer and architect not announced.

Miss., Meridian — Meridian Fiber Co. plans addition to plant. $50,000. Engineer and architect not announced.

O., Cleveland—Amer. Can Co., 1677 East 40th St., had plans prepared by C. G. Preis, 120 Bway., New York City, altering and building 1 story, 42 x 55 x 127 ft., brick and steel factory addition, 1588 East 40th St. $40,000.

O., Cleveland—J. De Kaiser and H. Revitz, Guardian Bldg., plan 4 story, brick, steel and concrete warehouse, on lot 216 x 405 ft., Carnegie Ave. along tracks of Pennsylvania R.R. Engineer and architect not selected.

O., Cleveland—Lees—Bradner Co., 6210 Carnegie Ave., having plans prepared by W. J. Wefel, 225 Union Bldg., 1 story, 55 x 100 ft. machine shop, and 1 story, 30 x 100 ft. storage plant, both brick and steel, 6210 Carnegie Ave. $60,000. Noted Oct. 26.

O., Cleveland—Master Builders Co., Union Bldg., having plans prepared by Christian, Schwarzenberg & Gaeda, archts. and engrs., 1900 Euclid Ave., 2 story, brick, steel and concrete factory, 6511 Morgan Ave. $50,000.

O., Cleveland — Neal Fireproof Storage Co., 7208 Euclid Ave., having plans prepared by Christian, Schwarzenberg & Gaeda, 1900 Euclid Ave., 7 story, 70 x 100 ft., brick and rein.-con. storage plant, Detroit Ave. opposite West 99th St. $150,000.

O., Coventry (near Akron)—Whitman-Barnes Co., East Buchtel Ave., Akron, having plans prepared by Lockwood, Green & Co., Hanna Bldg., Cleveland, 2 story, brick and steel warehouse, 125,000 sq.ft. floor space, here. $150,000.

Mich., River Rouge (Detroit P. O.) — Ford Motor Co., Highland Park, had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 1 story, 94 x 1,320 ft. steel mill with two 100 x 420 ft. and one 100 x 620 ft. wings, brick, steel and concrete, also 1 story, 56 x 775 ft. monitor on crane way, steel.

Wis., Madison—Madison Nash Co., 155 East Wilson St., having plans prepared by Claude & Starck, Badger Annex, 2 story, 66 x 122 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000. Noted May 17.

Wis., Madison—University of Wisconsin having plans prepared by J. C. White, engr., c/o State Heating Plant, 1 story heating plant, brick, rein.-con. and steel, plain foundation. $88,000. Noted Mar. 22.

Wis., Milwaukee — Modern Auto Repair Co., 2431 State St., having plans prepared by H. T. Schramek, 221 Grand Ave., 1 story, 112 x 125 ft., brick and concrete, garage addition, plain foundation. $50,000.

Wis., Wisconsin Rapids — Prentiss-Wabers Mfg. Co., Spring St., soon takes bids 1 story, 45 x 142 ft. and 47 x 60 ft., brick and timber factory, plain foundation. $45,000. Wisconsin Eng. & Constr. Co., 315 Jefferson St., Wausau, engrs. Noted Jan. 4.

Minn., Litchfield—Plans enlarging electric light and power plant. $75,000. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, and E. D. Jackson, 403 Endicott Bldg., St. Paul, engrs.

Mo., Kansas City—W. Jewell Realty Co., 227 Rialto Bldg., plans 2 story and basement, 110 x 132 ft., rein.-con. and brick garage, 912-922 Cherry St. $65,000. Private plans.

Mo., St. Louis—Tate Motor Co., Inc., 3111 Locust St., plans 3 story, 125 x 165 ft., rein.-con. and brick garage and salesrooms, etc., plain foundation, Washington St. $300,000. Engineer and architect not named.

Ark., Little Rock — Arkansas Central Power Co. plans additions to local light and power plant. $75,000. C. J. Griffith, genl. mgr.

Tex., Dallas—Waples Platter Grocer Co., Lamar and Broom Sts., making plans 4 story and basement, factory, $75,000. Engineer and architect not announced.

Tex., Ft. Worth—Dunn Locke Mfg. Co., Daget and Lake Sts., takes bids in summer, vinegar factory and warehouse. $50,000. Engineer and architect not announced.

Tex., Garland — W. H. Prather, 4012 Worth St., Dallas, plans cotton compress, concrete, plain foundation. $50,000. Engineer and architect not announced.

Tex., Lufkin—Lufkin Machine & Fdry. Co. soon takes bids 46 x 200 ft. machine shop. $40,000. Private plans.

Tex., San Angelo—R. P. Amacker, South Chadbourne St., soon takes bids 2 story, brick, garage. $40,000. A. R. Swartz, Trust Bldg., archt.

Oregon—Pacific Power & Light Co., Gasco Bldg., Portland, having surveys made from mouth of Des Schutes River to point 20 mi. above at Ketchun (Grass Valley P. O.), having in view construction of 40,000 hp. hydro-electric power plant. $2,000,000-$3,000,000. L. A. McArthur, mgr. H. H. Schoolfield, ch. engr.

Ore., Portland—See "Miscellaneous."

Calif., Los Angeles—Ironall Cloth Co., represented by O. A. Berman, 822 South Los Angeles St., plans factory, probably rein.-con. To exceed $250,000.

Calif., Los Angeles—Ray Productions, 1425 Fleming St., having plans prepared by H. Cross, Merchants' Natl. Bank Bldg., moving picture plant, incl. group studio buildings, mostly rein.-con., Beverly Blvd. and 1st St. To exceed $2,000,000.

Calif., Los Angeles—Theim Bros. Co., Ft. Wayne, Ind., having plans prepared by Lockwood-Green Co., 38 South Dearborn St., Chicago, constructing and equipping knitting mills. $6,000,000. First unit will exceed $500,000.

Calif., Los Angeles—Wayne Knitting Mills, c/o Austin Co., archts., Pacific Finance Bldg., having plans prepared knitting mill, rein.-con., probably 4 story, San Fernando Rd. To exceed $150,000.

Calif., Petaluma — W. H. Curtis, et al., (Sausalito-Petaluma & Santa Rosa Stage Co.), 339 College Ave., Santa Rosa, plans 1 story, auto stage depot, rein.-con., A and 4th Sts., here. $40,000. Engineer and architect not selected.

Calif., San Bernardino—Company represented by C. H. Arns, 327 F St., had plans prepared 2 story (ultimately 4 story), rein.-con. warehouse, Rialto St. $150,000 or more. Private plans.

Calif., San Francisco — Grinnell Co. of Pacific, 453 Mission St., plans warehouse, fireproof, 5th and Brannan Sts. To exceed $75,000. Engineer and architect not selected.

Calif., San Francisco — H. Shermund, archt., Hearst Bldg., preparing preliminary plans 3 story, 70 x 160 ft. warehouse and loft building, brick and timber, vicinity Bryant and 7th Sts. $85,000. Owner's name withheld.

Ont., Oakville—Dominion Wire Bound Box Co. plans 2 or 3 story and basement factory, rein.-con. and brick, plain foundation, $150,000. Engineer and architect not selected.

Industrial Works (Continued)

Ont., Toronto—Toronto Electrical Comn., 225 Yonge St., soon takes bids addition to hydro-electric substation, brick and concrete, plain foundation, Carlan Ave. and Gerrard St. $300,000. Private plans.

BIDS DESIRED

Wis., Green Bay—Foeller, Schober & Stephenson, archts., Nicollet Bldg., taking bids 1 and 2 story, 62 x 159 ft., brick and concrete garage, plain foundation, Main St., for Beaumont Hotel, Main and Washington Sts. $45,000.

Wis., La Crosse—See "Buildings."

Wis., Milwaukee — Kirchoff & Rose, archts., 221 Grand Ave., taking bids 5 story and basement, 90 x 140 ft., brick and concrete, plain and wood pile foundation, for Pittsburgh Plate Glass Co., 205 Lake St. Noted May 24.

Mo., Jefferson City—June 29, by Executive Com. of Curators, 100 New York Life Bldg., Kansas City, boiler house and equipment, etc., for Lincoln University, here. E. C. Janssen, 1301 Chemical Bldg., St. Louis, engr.

Calif., Los Angeles—W. C. Pennell, archt., Pacific Finance Bldg., receiving bids 1 and 2 story, laundry, brick, Slauson Ave., for Wolfstein & Goldschmidt, 617 Merritt Bldg. To exceed $75,000. De Luxe Laundry Co., Los Angeles, lessee.

BIDS RECEIVED

Minn., St. Paul—State Bd. Control, Capitol, June 12, general contract 3 story and basement dairy, rein.-con., brick, tile and stone, for College of Agriculture, University of Minnesota, from L. Fleisher Co., 504 Plymouth Bldg., Minneapolis, $156,000. Noted June 7.

CONTRACTS AWARDED

Mass., Worcester—Rice, Barton & Fales Machine & Iron Co., Taintor St., 1 story, 40 x 140 ft. foundry, rein.-con. and brick, plain foundation, Taintor St., to E. J. Cross & Co., 82 Foster St., $40,000.

N. Y., Long Island City—Superior Piece Dye Wks., 37 Moultrie St., brick, steel and rein.-con. factory, plain foundation, to Groce Lewin, 345 Madison St., New York. Archts. est. $100,000. Noted May 17.

N. Y., New York—R. P. Cerussi, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, brick, steel and concrete warehouse, plain foundation, Belmont Ave., by day labor. $175,000.

N. Y., New York—W. C. P. Realty Co., c/o W. Shary, archt. and engr., 41 Union Sq., will build 2 story, 100 x 125 ft., brick, steel and concrete garage, plain foundation, 418 East 48th St., by day labor. $50,000.

N. J., Trenton—Combination Rubber Co., Boonton, 4 story, 77 x 275 ft. factory, Mead St., here, to Karno-Smith Co., Broad St. Bank.

Pa., Canonsburg—J. Hoxworth, general contract 1 story, 65 x 138 ft., brick, stone and concrete garage, Greenside and Pike Sts., to Taylor & Crawford, Canonsburg. Archts. est. $40,000.

O., Cleveland — Brodhead-Garrett Co., 2835 East 51st St., 300 x 360 ft., brick, steel and concrete warehouse, 40 x 40 ft. dry kiln, 40 x 50 ft. planing mill also boiler house, office and garage, East 71st St. along Belt Line R.R. tracks, to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $150,000. Noted May 3.

O., Cincinnati—Hauser Stander Tank Co., Ammen St. and along tracks of Baltimore & Ohio R.R., 1 story, 90 x 120 ft., brick and steel factory addition, to Austin Co., 16112 Euclid Ave., Cleveland. Archts. est. $50,000.

O., Cleveland—J. Miller, 2701 East 55th St., 1 story, 85 x 140 ft., brick and steel garage, 2966 East 55th St., to Dresser-Minton Co., The Arcade. Archts. est. $45,000. Noted May 31.

O., Cleveland — Surety Investment Co., 16112 Euclid Ave., 1 story and basement, 75 x 120 ft., brick and steel garage, East 105th St. and Hampden Ave., to Austin Co., 16112 Euclid Ave. Archts. est. $50,000. Rosen Garage Co., 5618 Woodland Ave., lessees.

Ill., Chicago—C. Luckow, 222 South Morgan St., 2 story, 139 x 169 ft., fireproof laundry, 1228-44 West Monroe St., to H. Menke Co., 2130 West Lake St. Archts. est. $75,000.

Ill., Chicago—C. Mothan, 1316 South Troy St., 1 story, 100 x 125 ft. garage, fireproof, 48th and Cottage Grove Ave., to Barrett Constr. Co., 155 North Clark St. Archts. est. $400,000.

Ill., Chicago—Olson Cartage Co., 525 West Chicago Ave., 1 story, 95 x 125 ft. garage, fireproof, 417-21 West Chicago Ave., to Rutledge-Bone Constr Co., 64 West Randolph St. Archts. est. $40,000.

Wis., Burlington — Burlington Sanitary Milk Co. 2 story, 40 x 60 ft., brick and timber addition, plain foundation, to F. Rewald, Burlington. Archts. est. $40,000.

Wis., Madison—Capitol City Garage, South Pinckney St., 2 story, 66 x 165 ft., brick, rein.-con. and steel garage and repair shop, Washington St., to W. H. Deason, 357 Washington Bldg. Archts. est. $75,000 Noted Apr. 12.

Wis., Stetsonville—Ripon Produce Co., Ripon, 2 story, 40 x 60 ft. creamery, brick, plain foundation, here, to C. Fahrenbach, Stetsonville. Archts. est. $40,000.

Mo., St. Louis—Endicott-Johnson Corp., 105 Clinton St., Binghamton, N. Y., 5 story, 150 x 150 ft. warehouse and distribution center, rein.-con. and brick, concrete pile foundation with rail connections to 26 railroads, 12th St. from Spruce to Poplar Sts., here, to Morrison Constr. Co., International Life Bldg. Archts. est. $500,000. Noted June 14.

Mo., St. Louis — Missouri Pacific R.R., Ry. Exch. Bldg., 1 story, 27 x 82 x 152 ft. track shed, and 1 story, 27 x 34 x 60 ft. boiler room, both concrete, Van Buren St., to Folwell-Ahlskog Co., 323 North Michigan Ave., Chicago. Archts. est. $100,000.

Mo., St. Louis—Missouri Pacific R.R., Ry. Exch. Bldg., will build 1 story, 54 x 92 ft. power plant, rein.-con. and brick, 3045 Chouteau Ave., by day labor. $50,000. Private plans.

Tex., Dallas — Sutoon, Steele & Steele, Forney Ave., 1 story, 40 x 80 ft., 30 x 100 ft. and 60 x 150 ft., steel and concrete foundry, plain foundations, to Mosher Steel & Mchy. Co., 900 South Austin St., $125,000.

Tex., Dallas — Terminal Bldg. Corp., Southwestern Life Bldg., will build 20 story, basement and subways, warehouse and office, Commerce and Jackston Sts., etc., by day labor. $5,000,000.

Tex., Greenville—F. Wolfe, 2 story, rein.-con., warehouse, plain foundation, Henry and Wright Sts., to J. T. Glover, Greenville, $40,000.

Calif., Long Beach — City Transfer & Storage Co., 140 Pacific St., 6 story and basement, rein.-con. warehouse, Anaheim Rd., to E. E. English, Citizens' Natl. Bank Bldg., Los Angeles, to exceed $150,000.

Calif., Los Angeles—Home Service Laundry Co., 779 Towne St., 1 story brick addition and new 3 story, rein.-con. annex, Crocker St., to F. W. Sharp, c/o Builders' Exch., Stimson Bldg., $81,500. Noted May 31.

Calif., Oakland — Montgomery Ward & Co., Chicago Ave. and Larr St., Chicago, 8 story, 145 x 184 ft., rein.-con. warehouse and mail order plant, to Wells Bros., 53 West Jackson Blvd., Chicago. P. A. Wells, Hotel Oakland, Oakland (representing contractor) taking sub-bids. $200,000. Noted June 14.

Calif., Sacramento—Western Pacific R.R. Co., Mills Bldg., San Francisco, 1 story, rein.-con. and steel additions to Jeffery shops, here, to W. Murcell, Ochsner Bldg., $100,000. Noted May 31.

Calif., San Francisco—Pacific Gas & Electric Co., 445 Sutter St., constructing 2 story rein.-con. power house and installing pumps, etc., at Potrero Gas Plant, to Tibbetts-Pacific Co., 16 California St. Est. cost $110,000. Pumps and machinery will be furnished by owner. Noted June 14.

Que., Montreal—Drummond McCall Ltd., 28 Victoria Sq., 5 story, 203 x 213 ft. warehouse, rein.-con., brick and steel, Wellington St., to A. F. Byers, 340 University St., $160,000. Noted May 31.

Buildings

PROPOSED WORK

Mass., Boston — Hospital — City plans 10 story hospital and nurses' home, probably brick and stone, Harrison and Massachusetts Ave. $1,500,000. J. A. Rourke, chn. Bd. Pub. Wks. Engineer and architect not announced.

Mass., Ware—High School—Town had plans prepared by J. D. Leland & Co., 41 Mt. Vernon St., Boston, and takes bids about July 7, 2 story and basement, 60 x 100 ft. and 40 x 70 ft., rein.-con. and brick, plain foundation. To exceed $150,000. Noted May 31.

Conn., Hartford—Apartment—Gordon & Wagman, 321 Garden St., had plans prepared by G. Zunner, 182 High St., 3 story, 90 x 160 ft., brick, plain foundation, Garden St. $200,000.

Conn., Waterbury — Business — J. H. Cassidy, 144 Bank St., having plans prepared by W. E. Hunt, 197 Water St., Torrington, 3 story and basement, 70 x 110 ft., brick, plain foundation, Leavenworth St. $150,000.

N. Y., Brooklyn—Apartment—P. Freshman, archt. and engr., 350 Fulton St., preparing plans 4 story, brick, steel and stone, plain foundation, Sullivan St. $175,000. Owner's name withheld.

N. Y., Brooklyn—Bank—Peoples Trust Co., 885 Flatbush Ave., soon takes bids 3 story, brick, steel and stone, plain foundation, Flatbush and Church Aves. $250,000. Former bids rejected. Ludlow & Peabody, 101 Park Ave., New York, archts. H. G. Balcom, 10 East 47th St., New York, engr. Noted May 10.

N. Y., Brooklyn—Memorial—Odd Fellows Memorial Building Assn., 303 Schermerhorn St., soon takes bids 100 x 100 ft., brick, steel and stone, plain foundation, $250,000. Schneider & Werther, 70 East 45th St., New York City, archts. and engrs.

N. Y., Brooklyn—School—Roman Catholic Church of St. Catherine of Genoa, c/o Collins, Murphy & Lehman, archts. and engrs., 159 Remsen St., soon takes bids 2 story, 110 x 130 ft., brick and stone, plain foundation, Albany Ave. $150,000.

N. Y., Hornell—School—Bd. Educ. will readvertise for bids for Lincoln School. L. Dennison, contractor, 162 North Main St., refused contract. Noted May 24.

N. Y., Mount Morris—School—Bd. Educ. received no bids June 5, 2 story and basement, 200 x 200 ft., rein.-con., brick and stone, Chapel St. $190,000. Will readvertise. C. A. Foote & Son, Mount Morris, archt. Noted May 17.

N. Y., New York—Apartment—H. Lucas, archt. and engr., 117 East 60th St., prepared plans 5 story, brick, steel, and stone, plain foundation, 360 East 50th St. $250,000. Owners name withheld.

N. Y., New York—School—Allen-Stevenson School, 50 East 57th St., plans 5 story, 35 x 102 ft., brick, steel and stone, plain foundation, 132-134 East 57th St. $200,000. Engineer and architect not selected.

N. Y., Phelps—School—J. F. Helmer, clk. Bd. Educ., rejected bids June 12 school in Dist. 8. $175,000. Will readvertise. Noted May 31.

N. Y., Rochester—Nurses' Home—Rochester General Hospital, 471 Main St. W., take bids about July 15, 6 story, 37 x 127 ft., rein.-con. and steel, concrete pile foundation, Troup St. $250,000. Gordon & Kaelber, Sibley Bldg., archts. and engrs.

N. J., Bloomfield — High School — Bd. Educ., received no bids May 21, 4 story, 25 x 140 ft., brick and stone addition, Broad St. $225,000. J. F. Carton, 207 Market St., Newark, archt. J. O. C. Gibbons, 207 Market St., Newark, engr. Noted May 17.

N. J., Trenton—Home—Masonic Home Assn. having plans prepared by H. A. Hill, Broad St. Bank, rein.-con., brick and steel, West Front St. $800,000.

Pa., Nanty-Glo — Business — T. Burns, Nanty-Glo, takes bids about Aug. 18, 3 story and basement, 100 x 120 ft., brick, steel and concrete, Main St. $150,000. Hersh & Shollar, Commerce Bldg., Altoona, archts.

Pa., Somerset—Business—W. E. Beachy, Center Ave. and Patriot St., takes bids about Aug. 1, 3 story and basement, 83 x 101 ft., steel, concrete and stone. $150,000. Architect not selected.

Pa., Williamsport—Bank—First Natl. Bank, having plans prepared by P. Davis, 3rd, 1713 Sansom St., Phila., 8 story and basement, 52 x 104 ft., limestone, brick, steel and concrete addition, West 3rd St. $150,000.

Pa., Williamsport — Gymnasium — Bd. Dirs. Williamsport Dickinson Seminary, opens bids about July 13, 2 story and basement, 88 x 110 ft., brick, concrete and steel, North St. $150,000. J. W. Long, pres. C. W. Feil Co., 320 Locust St., archts.

Md., Baltimore—School—St. Anns Roman Catholic Church, 528 East 22nd St., having plans prepared by H. I. Kavanagh, 913 North Charles St., 3 story, 55 x 165 ft., brick, plain foundation, 22nd St. and Greenmount Ave. $150,000. J. C. Mallon, pastor.

W. Va., Clarksburg — Church — Church of Immaculate Conception having plans prepared by E. J. Weber, 308 K. of C. Bldg., Pittsburgh, Pa., 1 story, basement and balcony, 75 x 125 ft., stone. $250,000.

N. C., Wilson—Courthouse and Jail—Bd. Comrs. Wilson Co. receiving competitive sketches until July 30, for courthouse and jail. H. B. Lane, chn.

Fla., Tampa — Office — See "Industrial Works."

La., Baton Rouge — Hospital — General Hospital having plans prepared by R. S. Soule, 429 Carondelet St., New Orleans, 2 story, brick. $150,000.

Tenn., Nashville—Dormitory—Vanderbilt University, and Alumni Assn. raising fund for girls dormitory, on campus. J. H. Kirkland, chancellor. Architect not announced.

Buildings (Continued)

Ky., Louisville — Hospital — Methodist Episcopal Deaconess Hospital, 8th St., plans addition. $300,000. Engineer and architect not selected.

Ky., Louisville—School—Bd. Educ., plans 3 story addition to Male High School, Brook and Breckinridge Sts. $300,000. Engineer and architect not selected.

Ky., Princeton—High School—Bd. Educ. plans 3 story high school. $150,000. Engineer and architect not selected.

O., Cleveland—Store and Office—Seidman Mortgage Co., Discount Bldg., having plans prepared by W. S. Ferguson Co., 1900 Euclid Ave., 6 story (ultimately 10 story), 43 x 132 ft., brick, steel and concrete, East 9th St. and Vincent Ave. $300,000.

Ind., Anderson—Orphanage—Bd. Comrs. Madison Co. having plans prepared by E. R. Watkins, Anderson, 2 story and basement, 120 x 120 ft., brick. $150,000. H. P. Bardie, aud.

Ind., Gary—Lodge—B. P. O. E. Lodge 1753 having plans prepared by G. W. Maher, 156 East Erie St., Chicago, 4 story and basement, 75 x 125 ft., rein.-con., steel and brick, Bway. $250,000.

Mich., Birmingham — High School — Bd. Educ. having plans prepared by Van Leyen, Schilling, Keough & Reynolds, 3440 Cass Ave., Detroit, 2 story and basement, 16 room addition to Baldwin High School, brick, steel and concrete, plain foundation, Martin St. $200,000.

Mich., Detroit—Mercantile—Kline Garment Co., 1223 Woodward Ave., having plans prepared 4 story, 60 x 100 ft., rein.-con., brick and steel addition. $150,000. Engineer and architect not announced.

Ill., DeKalb—Industrial Arts and Science, etc.—State Bd. Educ. plans industrial arts and science building also addition to men's dormitory, at Northern Illinois State Normal School, here, $200,000 and $250,000 respectively. E. D. Martin, 306 South Wabash Ave., Chicago, archt.

Ill., Elgin—Hotel—Owner, c/o C. Ackermann, 17 Rugby Pl., plans fireproof hotel. $300,000. S. N. Crowen, 10 South La Salle St., Chicago, archt.

Ill., Pana—Church—St. Patricks Parish soon takes bids 2 story, concrete, brick and steel. $150,000. J. P. Moroney, pastor. Private plans.

Wis., Beaver Dam—Auditorium, etc.—Amer. Legion Post plans 2 story, auditorium incl. gymnasium and swimming tank, brick, rein.-con. and steel, plain foundation. $150,000. Engineer and architect not selected.

Wis., Milwaukee—School and Auditorium—St. Catherines Congregation, c/o A. Reichard, secy., 86 Mason St., having revised plans prepared by Backes & Pfaller, 216 West Water St., 1 story, 78 x 142 ft. and 56 x 90 ft., brick, tile and concrete, plain foundation, Center St. $150,000. Former bids rejected; will readvertise.

Wis., Richland Center — Hospital — Wisconsin Methodist Hospital Assn., c/o J. W. Irish, 111 South Hamilton St., Madison, having plans prepared 3 story and basement, 164 x 186 ft., brick, rein.-con. and stone, plain foundation, here. $150,000. Private plans.

Wis., Union Grove — Employees — State Bd. Control, Madison, having plans prepared by A. Peabody, Capitol Bldg., Madison, 1 story, 50 x 115 ft., brick, rein.-con. and stone, plain foundation, at Southern Home for Feeble Minded. $150,000.

S. D., Sioux Falls—Church—First Lutheran Church, c/o H. J. Glenn, pastor, 310 West 12th St., plans brick and stone, 12th St. and Dakota Ave. $200,000.

N. D., Fargo—Hospital—St. Johns Hospital, 365 6th Ave. S., soon takes bids superstructure 5 story, 46 x 130 ft., rein.-con., brick and stone. J. H. Wheeler, 508 Exch. Bank Bldg., St. Paul, Minn., archt. Noted May 24.

Mo., Kansas City — High School — Bd. Educ. having preliminary plans prepared by C. A. Smith, 601 Finance Bldg., Junior High School, Linwood Blvd. $900,000.

Mo., St. Louis—Apartment Hotel—F. L. Cornwell, La Salle Bldg., having plans prepared by W. S. Frank, Century Bldg., 164 x 219 ft., rein.-con., brick and steel, concrete pile foundation, Kingshighway. $1,000,000.

Mo., St. Louis—Home—Jewish Orthodox Old Folks Home, Blair and East Grand Aves., plans rein.-con. and brick addition, plain foundation, probably 6 story, $250,000. Engineer and architect not announced.

Mo., St. Louis — Office — Amalgamated Assn. of Street & Electric Employes No. 788, 4036 Chauteau Ave., plans 10 or more story, 148 x 158 ft., rein.-con. and brick, plain foundation, Grand Blvd. $1,000,000. Engineer and architect not announced.

Mo., St. Louis—Office—Local syndicate had tentative plans prepared by L. B. Pendleton, 119 North 7th St., 10 story, 77 x 100 ft., rein.-con., brick and steel, concrete pile foundation, Grand Blvd. To exceed $500,000.

Mo., St. Louis—Temple—Negro Masonic Temple Assn., c/o G. W. Lewis, Far West Lodge 2, 3619 Easton Ave., plans 5 story, rein.-con., brick and steel, Finney Ave. $250,000. Engineer and architect not named.

Ark., Helena—Y.M.C.A. and Y.W.C.A.—A. S. Ackley, chn. building com., raising funds for additions. $150,000.

Tex., Austin—Biology—Bd. Regents, University of Texas, takes bids about July 20, 2 story and basement, 69 x 192 ft., brick and rein.-con., concrete pile foundation, Campus. H. M. Greene Co., North Texas Bldg., Dallas, engrs. and archts. Noted Nov. 16.

Tex., Dallas—School—Bd. Educ. having planas prepared by C. D. Hill & Co., Sumpter Bldg., school Vickery Pl. $150,000.

Tex., Houston—City Hall—Defeated $1,700,000 bonds for 19 story, Travis St. W. A. Dowdy, city archt. and engr. Noted May 24.

Tex., Houston — Medical Arts — F. A. Shaffer, c/o Guardian Trust Co., Main and Franklin Sts., having plans prepared by Crane & Franzhelm, Chronicle Bldg., 20 story and basement, brick, steel and concrete, Main St. $1,500,000.

Tex., Wichita Falls — Church — First Methodist Church having plans prepared by Sanguinet, Staats & Hedrick, First Natl. Bank Bldg., Ft. Worth, brick and stone, plain foundation. $250,000.

Okla., McAlester — Court House — Pittsburgh Co. plans election to vote on $300,000 bonds for court house. Engineer and architect not selected.

Colo., Denver—Bank and Office—Denver Natl. Bank, 17th and Curtis Sts., having plans prepared by H. W. J. Edbrooke, Colorado Theatre Bldg., 12 story, 100 x 125 ft., steel or rein.-con., 17th and Curtis Sts. $1,000,000.

Nev., Reno—Hotel—Riverside Hotel Co., (H. L. Stevens & Co., 433 California St., San Francisco, promoters), plans 6 story and basement, 210 room, here. $700,000.

Calif., Anaheim—Hotel—Building Association, headed by J. Siegel, 921 North Los Angeles St., plans hotel probably 5 story, Bway. To exceed $250,000.

Calif., Fresno — Theatre—West Coast Theatres, Inc., Knickerbocker Bldg., Los Angeles, plans theatre, here. $150,000 or more. Engineer and architect not selected.

Calif., Inglewood—High School—Inglewood High School Dist. plans to vote on $450,000 bonds for group of high school buildings.

Calif., Long Beach — Apartment — I. Butterfield, 800 Pacific Ave., having plans prepared by Davies & Baume, Marine Bank Bldg., 12 story and basement, rein.-con., Linden Ave. To exceed $500,000.

Calif., Long Beach—Apartment—R. C. Robertson, c/o L. P. Wikoff and H. E. Burkett, engrs. and archts., Commercial Bldg., having plans prepared 6 story, rein.-con., West 6th St. To exceed $150,000.

Calif., Long Beach—Apartment—F. Stillwell, c/o Russell & Alpaugh, archts., Story Bldg., Los Angeles, having plans prepared 12 story, probably rein.-con., Cedar and 3rd Sts. $750,000 or more. Noted June 7.

Calif., Los Angeles — Apartment — F. Stillwell, c/o Russell & Alpaugh, archts., Story Bldg., having plans prepared 4 story, brick, Grand Ave. and 33rd St. $150,000.

Calif., Los Angeles—Hotel and Store—H. K. Elder, et al., Story Bldg., had plans prepared by Curlett & Beelman, Union Bank Bldg., 14 story, rein.-con., Francisco and 7th Sts. To exceed $850,000.

Calif., Los Angeles—Hotel and Store—Prado Hotel Co., c/o J. J. Frauenfelder, archt., Story Bldg., having plans prepared 6 story and basement, rein.-con., Vermont Ave. $200,000.

Calif., Los Angeles—Store and Loft—S. Thorpe, Merchants Natl. Bank Bldg., having plans prepared by Morgan, Walls & Morgan, Van Nuys Bldg., 2 and 4 story, brick, 7th and Parkview Sts. To exceed $150,000.

Calif., Los Angeles—Theatre—Music Box Theatre Corp. had preliminary plans prepared by Monaco & Bordeaux, International Bank Bldg., theatre, fireproof, Cahuenga St. To exceed $200,000. G. W. Craig, 460 West Colorado St., Eagle Rock, interested.

Calif., Marysville — Hotel — Marysville Hotel Co., c/o E. Glass, archt., Underwood Bldg., San Francisco, having plans prepared 6 story and basement, rein.-con., 5th and E Sts. $300,000.

Calif., Oakland—Club and Store—Athens Athletic Club, Henshaw Bldg., having plans prepared by W. Knowles, Central Bank Bldg., 6 story and basement, probably rein.-con. and steel, Clay St. between 12th and 13th St. To exceed $250,000.

Calif., Oakland—Hospital—Merritt Hospital, Hawthorne and Webster Sts., having plans prepared by Reed & Corlett, Bank of Savings Bldg., 2 story and basement, rein.-con., Hawthorne and Webster Sts. $200,000.

Calif., Oakland—Hotel and Store— M. F. Smith, 1001 Excelsior Ave., having plans prepared by J. J. Donovan, 1916 Bway., 6 story and basement, 100 x 190 ft., rein.-con., brick, steel and terra cotta, 12th and Oak Sts. $250,000.

Calif., Pasadena—Library, City Hall, etc. —See "Miscellaneous."

Calif., San Francisco—Apartment—Kincannon & Perego, 159 Sutter St., had plans prepared by C. W. Mahoney, 892 Union St., 5 story and basement, brick, Washington and Franklin Sts. $500,000.

Calif., San Francisco—Apartment—Two Thousand and Six Washington St., Inc., c/o C. A. Meussdorffer, archt., Humboldt Bank Bldg., having plans prepared 7 story and basement, rein.-con., Washington St. near Gough St. $1,500,000. Grading contract let to H. N. McClure, 608 Octavia St.

Calif., San Francisco—Hotel and Store—A. J. Fabre and E. Hildebrand, archts., 110 Sutter St., making sketches 6 story and basement, 175 rooms, steel frame, downtown section. $300,000. Owner's name withheld.

Calif., San Francisco—Station and Firehouse—City and San Francisco Co. appropriated $150,000 for police station and firehouse, south of Market St. J. Reid, Jr., City Hall, city archt.

Calif., Stockton — Apartment — C. W. Iverson and A. L. Lissner, Hotel Turpin, San Francisco, plans 4 story, rein.-con. or brick, here. $200,000.

Calif., Whittier—Apartment and Store—Building Association, headed by C. C. Boatright, 571 East Bailey St., having preliminary plans prepared by E. M. Hinshaw, Whittier Savings Bank Bldg., 4 story and basement, rein.-con., North Greenleaf Ave. $150,000.

Ont., Hamilton—Theatre—G. Swanick, 108 James St. N., having plans prepared by Hall & Duerr, Lumsden Bldg., Toronto, 2 and 3 story and basement, rein.-con., steel and brick, plain foundation. $200,000. Noted May 17.

Ont., Toronto—Church—Central Baptist Church, Cassell Memorial Hall, Bloor St. W., plans 1 story and basement, brick, plain foundation, Bloor St. W. $150,000. Q. B. Henderson, 578 King St. W., chn. building com. Engineer and architect not selected.

Ont., Toronto — Clubhouse — Parkdale Canoe Club, Sunnyside, having plans prepared by Molesworth, West & Secord, 43 Victoria St., 2 story, 80 x 140 ft. main building with two 1 story, 60 x 100 ft. wings, rein.-con., brick and steel, plain foundation, Sunnyside. $150,000. Noted May 10.

BIDS DESIRED

Conn., Hartford—Church—J. V. E. Belanger, pastor of Church of St. Ann, 820 Park St., taking bids and opens same about June 30, 2 towers, 50 x 130 ft., brick and terra cotta, plain foundation, Park and Putnam Sts. $165,000. H. F. Ludorif, 122 Main St., New Britain, archt. Noted May 17.

N. Y., New York—Loft—Eighty-Fifth St. and 3rd Ave. Corp., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., will build 4 story, 35 x 100 ft., brick, steel and stone, plain foundation, 3rd Ave. and 85th St. $150,000. Work will be done by separate contracts under supervision of architects.

N. Y., New York — Office — G. Backer Constr. Co., 295 5th Ave., will build 14 story, brick, steel and stone, plain foundation, East 47th St. $1,000,000. Work will be done by separate contracts. Sommerfeld & Steckler, 31 Union Sq., archts. and engrs.

N. J., Asbury Park—High School—June 26 (change of date), by Bd. Educ., brick, steel and stone, plain foundation, $800,000. E. A. Arend, 105 West 40th St., New York City, archt. and eng. Noted June 7.

N. J., Maplewood (branch of South Orange)—School—July 9, by Bd. Educ., South Orange Twp., Academy St., South Orange, 2 story and basement, 127 x 164 ft., semi-fireproof, Harvard Ave. between Prospect St. and Valley Rd., here. $200,000. Guilbert & Betelle, Chamber of Commerce Bldg., Newark, archts.

N. Y., Saratoga Springs—Kitchen, Pantry and Diningroom—June 30, by G. W. Ainsworth, comr. Pub. Wks., City Hall, altering

Buildings (Continued)

and repairing kitchen, pantry and dining-room of Casino in Congress Park; adv. this issue.

Pa., Beaverdale—School—June 30, by Summerhill Twp. School Bd., 3 story and basement, 68 x 100 ft., brick addition. $150,000. C. S. Burtnett, secy. Hersh & Shollar, Commerce Bldg., Altoona, archts.

Pa., Easton—High School—July 9, by School Dist. at office R. E. Piefer, secy., 30 North 2nd St., junior High school, Seitz Ave. and Berwick St. Michler & Snyder, Drake Bldg., archts.

Pa., Yukon—School—South Huntington Bd. Educ., c/o D. H. Keller, pres., R. D. 1, Ruffsdale, receiving bids 2 story and basement, brick, here. $150,000. W. B. Sloan, Odd Fellows Bldg., Greensburg, engr.

Miss., Jackson—Office—Aug. 1, by Lamar Life Insurance Co., 10 story and basement, 82 x 148 ft. and 50 x 120 ft., brick, stone and concrete, plain foundation. $500,000. Sanguinette, Staats & Hedrick, First Natl. Bank Bldg., Ft. Worth, Tex., engrs. and archts. Noted Dec. 28.

La., Alexandria—Orphans Home—June 30 by Jones, Roessle & Olschner, archts., Ardis Bldg., three 2 story buildings, brick and concrete, for Masonic Home for Orphans, here. $150,000.

Tenn., Knoxville—Institute—July 15, by L. S. Pope, state comr. of institutions, Nashville, 5 brick buildings for deaf and dumb institute, $250,000. Marr & Holman, Stahlman Bldg., Nashville, archts.

Tenn., Nashville — Temple — June 26, (change of date) by Asmus & Clark, archts., Stahlman Bldg., brick, concrete and stone, 7th and Broad Sts., for Masonic Lodge. $500,000. Noted May 31.

O., Cleveland—Apartment—M. Morris, 1829 Grasmere Ave., taking bids and opens same about June 24, 4 story, 39 x 145 ft., brick and steel, 2043 East 77th St. $175,000. A. F. Janowitz, Permanent Bldg., archt.

Ill., Chicago—Apartment—J. Riley, 111 West Washington St., receiving bids 3 story and basement, fireproof, 104th and Rhodes Sts. $200,000. Fridstein & Co., 111 West Washington St., archts.

Ill., Evanston—Bank and Office—W. G. Uffendell, archt., 38 South State St., Chicago, receiving bids 2 story, fireproof, Chicago Ave. and Main St., here, for Evanston Trust Co., 915 Chicago Ave., here. $200,000.

Wis., La Crosse—Nurses Home, etc.—July 2, by La Crosse Lutheran Hospital Assn., 1910 South Front St., and O. A. Merman, archt., Linker Bldg., 3 story and basement, 42 x 100 ft., nurses home and remodeling power house, brick, tile and concrete, plain foundation. $150,000. Noted Feb. 8.

Wis., Waupun—Clubhouse—W. F. Bossman, archt., 419 32nd St., Beaver Dam, taking bids 4 story, 75 x 150 ft., brick, rein.-con. and steel, plain foundation on Lake Emily, here, for Schaumburg Country Club, 1801 West 35th St., Chicago, $150,00.

Ia., Conrad—School—July 24, by Bd. Educ., 3 story and basement rein.-con., brick, tile and stone. $150,000. E. L. Guild, secy. E. F. Gier, Conrad, archt. Noted May 31.

S. D., Flandreau — School — June 29 (change of date), by Bd. Educ., 2 story and basement, rein.-con., brick, tile and stone, $150,000. Schuemacher & Finkelhor, 315 Paulton Blk., Sioux Falls, archts. Noted June 14.

Calif., San Francisco—Apartment—G. L. Fish, c/o F. W. Quandt, archt., Monadnock Bldg., receiving bids 6 story and basement, rein.-con., Pine St. between Jones and Taylor Sts. $150,000.

Ont., Kitchener—Hospital—July 3, by Watt & Blackwell, archts., Bank of Toronto Bldg., London, 3 story and basement, 50 x 180 ft., with two 42 x 105 ft. wings, brick and hollow tile, here, for Sisters of St. Joseph, Hamilton. $500,000. Noted May 10.

BIDS RECEIVED

N. Y., Brooklyn—Police Station—R. E. Enright, police comr., at Bookkeepers Office, 240 Centre St., New York, new 105th Precinct Police Station and garage, Mesereole Ave. and Lorimer St., here, from W. W. Constr. Co., 15 East 40th St., New York, $154,000 and $164,000. Noted June 14.

O., Mansfield—City Hall—For 3 story, brick, steel and concrete, from A. E. Hancock, Mansfield. $184,000. Archts. est. $175,000. Noted Mar. 22.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., 2 story and part basement, 83 x 245 ft. and 80 x 102 ft., brick, steel and rein.-con., plain foundation, Joy Rd., from F. H. Goddard, 2130 Franklin St., $349,891. Noted May 24.

Tex., San Antonio—Church—P. G. Silber & Co., archts. and engrs., 319 Bedell Bldg., 2 story, 60 x 80 ft., rein.-con., brick and stone addition, concrete pile foundation, 402 Avenue D, for Presbyterian Church, from McKenzie Constr. Co., 616 Bedell Bldg., $154,678.

Tex., San Antonio—Office—Travis-St. Marys Investment Co., 407 Navarro St., 10 story, 90 x 110 ft., rein.-con. and stone, concrete pile foundation, from McKenzie Constr. Co., 605 Bedell Bldg., $321,000. Noted June 7.

Wash., Olympia—Capitol—State Capitol Comn., constructing main portion Legislative Building of Capitol, (exclusive of dome) from Western Constr. Co., Seaboard Bldg., Seattle, $875,862. Noted May 24.

Ore., Portland—High School—Bd. Educ., Washington High School, 4 story, 169 x 181 ft., rein.-con. and brick, general contract, from W. Frieberg, Portland, $546,640 less up to $30,000 for various eliminations; heating and ventilating apparatus from Kendal Heating Co., 24 Front St., $33,436.

Calif., San Francisco—School—City and San Francisco Co., rein.-con. school, Powell St., general contract from I. M. Sommer, Balboa Bldg., $192,687. Noted June 14.

CONTRACTS AWARDED

N. H., Hanover—Dormitory—Dartmouth College, 4 story, 42 x 100 ft. with 40 x 90 ft., ell, fireproof, to Rowe Constr. Co. Woodsville, $225,000.

Mass., Boston—Mercantile—E. V. Earle & Sons, 200 Devonshire St., 8 story, 88 x 155 ft., fireproof, Columbus Ave., by day labor. $700,000. G. N. Meserve, 200 Devonshire St., archt.

Mass., Somerville—City Hall—Pub. Wks. Dept., 2 story, 59 x 69 ft. addition, Highland Ave., to J. M. Hartwell, 46 Cornhill St., Boston, $198,000. Noted Apr. 19.

Conn., West Hartford (branch of Hartford)—Temple—Wyllis Lodge 90, Masonic Hall Assn., 2 story and basement, 40 x 70 ft., brick and stone, plain foundation, South Main St., to Industrial Constr. Co., 721 Main St., Hartford. Archts. est. $150,000.

N. Y., Brooklyn—School—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., P. S. 177, 5 story, brick, steel and stone, Dahill Rd., to T. A. Clarke Co., 122 Livingston St., $883,000. Noted June 7.

N. Y., New York — Apartment — F. B. Constr. Co., c/o G. E. Miller, archt. and engr., 1482 Bway., will build 6 story, 100 x 115 ft., brick, steel and stone, plain foundation, Webb Ave., by day labor. $225,000.

N. Y., New York—Apartment—S. and L. Building Co., c/o Margon & Glaser, archts. and engrs., 2804 3rd Ave., will build 6 story, brick, steel and stone, plain foundation, Grand Concourse, by day labor. $350,000.

N. Y., New York—Apartment—Owners Impvt. Corp., c/o Shape, Bready & Peterkin, Inc., archts. and engrs., 50 East 42nd St., 10 story, brick, steel and stone, plain foundation, 2-10 East 86th St., to I. W. Stemmler, Jr., Inc., 52 Vanderbilt Ave. Archts. est. $1,500,000.

N. Y., New York—Schools—Bd. Educ., 500 Park Ave., P. S. 47, East 23rd St. near 2nd Ave., to P. J. Brennan & Sons, 624 Madison Ave., $758,700; P. S. 71, Roberts Ave. between Jarvis and Hobart Aves., to Blenton Building Corp., 342 Madison Ave., $382,000, both brick, steel and stone, plain foundation. Noted June 7.

Pa., Pittsburgh—Community—Kingsley Assn., Inc., 43 Fernando St., 2 story and basement, 98 x 110 ft. addition, Larimer and Auburn Sts., to D. T. Riffle, 1006 Forbes St. Archts. est. $200,000. Noted Apr. 26.

Fla., Rockledge—Hotel—New Notel Indian River Co., 4 story, 220 ft. front, metal lath, on site of old Indian River Hotel, general contract to Marshall-Jackson Co., Lakeland, $140,714. Noted May 10.

La., Baton Rouge—Hall—Louisiana State University, constructing Peabody Hall, Greater Agricultural College, to Algernon Blair, 11 South Lawrence St., Montgomery, Ala., $255,700.

La., Shreveport — Hotel — Washington Hotel Co., 8 story, 150 x 150 ft., brick, stone and terra cotta, Edwards and Travis Sts., to Ault & Burden, Little Rock, Ark. Archts. est. $1,000,000.

O., Cleveland—Commercial—H. T. Spencer Co., c/o H. T. Spencer, 1450 West 3rd St., 2 story and basement (ultimately 4 story) 66 x 90 ft., brick and rein.-con., 217 St. Clair Ave., to H. K. Ferguson Co., 4900 Euclid Ave. Archts. est. $150,000.

O., Cleveland Heights (Warrensville, P. O.) — Apartments — Kletzkin & Forehouse, 810 Ulmer Bldg., Cleveland, two 3 story and basement, 55 x 133 ft., brick and timber, Mayfield Rd. near Coventry Rd., to H. Weltman, 10317 Columbus Ave., Cleveland. Archts. est. $175,000.

Ill., Chicago—Apartment—Fullerton Plaza Syndicate, 420 Fullerton Ave., 4 story and basement, 105 x 170 ft., fireproof, 424 Arlington Pl., to B-W Constr. Co., 720 Cass St. Archts. est. $400,000.

Ill., Chicago—Apartment—R. Gallagher, 5501 Prairie Ave., 3 story, 96 x 128 ft., fireproof, 5450-58 South Michigan Ave., to R. S. Wood, 305 East 55th St. Archts. est. $200,000.

Ill., Chicago — Apartment — Johnston Bros., 109 North Dearborn St., 3 story and basement, 100 x 125 ft., fireproof, 70th Pl. and Crandon St., to Turnquist Bros. Constr. Co., 227 East 69th Pl. Archts. est. $175,000.

Ill., Chicago—Apartment—Rettig Building Corp., 6707 Stony Island Ave., 10 story, 124 x 269 ft., fireproof, Stony Island Ave. and 67th St., to B-W Constr. Co., 720 Cass St. Archts. est. $3,500,000. Noted May 18.

Ill., Chicago—Apartment and Store—Rosen & Coine, c/o A. S. Alschuler, archt., 28 East Jackson Blvd., 3 story, 120 x 156 ft., fireproof, 6971-81 Sheridan Rd., to Johnson-Anderson Co., 7120 Evans Ave. Archts. est. $300,000.

Ill., Chicago—Apartment, Store and Office—B. H. Aarens, archt., 109 North Dearborn St., 3 story, 99 x 264 ft., fireproof, Racine and Grace Sts., to H. Sjoblom, 4220 North Western Ave. Archts. est. $500,000. Owner's name withheld.

Ill., Chicago—Hotel and Store—S. Dulkin, 6134 Vernon Ave., 3 story and basement, 106 x 150 ft., fireproof, 4823-33 West 22nd St., to J. Kappell, 2114 West North Ave. Archts. est. $200,000. Noted May 18.

Wis., Madison — School — Dominican Fathers of Blessed Sacrament, 2121 Jefferson St., 2 story, 64 x 100 ft., brick, rein.-con. and steel, plain foundation, Hollister St., to J. H. Kelly, 2013 Madison St. Archts. est. $150,000. Noted Mar. 1.

Wis., Pulaski—Church—Church of Blessed Virgin Mary, c/o L. Konieczka, 12 story, 60 x 150 ft. brick, rein.-con. and stone, plain foundation, to B. Beauregard, De Pere. Archts. est. $150,000.

Wis., Whitefish Bay—Apartment—E. R. Tompkins, 445 Milwaukee St., 3 story, 50 x 72 ft. and 26 x 115 ft., brick, tile and concrete, plain foundation, to Cutter Constr. Co., 886 46th St., Milwaukee. Archts. est. $150,000. Noted Mar. 8.

Minn., Duluth—High School—Bd. Educ. general contract 4 story and basement, 208 x 240 ft., rein.-con., brick and steel, 1st St. E. to G. H. Lounsberry, 322½ East Superior St., $168,298; heating and ventilating work, to H. Gazett, 323 East Superior St. $49,580.

Kan., Wichita—Business—H. Kaufman, Wheeler Kelly & Hagny Bldg., general contract 4 story and basement, 100 x 140 ft., to G. H. Siedhoff Constr. Co., 4th Natl. Bank Bldg., Wichita. Archts. est. $150,000.

Mo., Kansas City — Memorial — Liberty Memorial Assn., R. A. Long Bldg., rein.-con., brick and steel, Station Rd., to Westlake Constr. Co., Railway Exch. Bldg., St. Louis, $1,142,250. Noted May 10.

Mo., St. Louis—School—St. Anthony Parish, Meramec St. and Michigan Ave., 2 story, brick and concrete, plain foundation, Meramec St., to Cornet-Casey Constr. Co., Chemical Bldg. Archts. est. $200,000. Noted Apr. 12.

Tex., Dallas—Hospital—Methodist Conference, c/o J. H. Grosclose, 807 Mercantile Bank Bldg., will build 6 story and basement, 114 x 171 ft., brick and stone, plain foundation, Ballad and Grove Sts., by day labor. $400,000. C. W. Ives, supt. De Witt & Lemmon, Southwestern Life Bldg., archts. Noted Apr. 26.

Tex., Dallas — Office — See "Industrial Work."

Calif., El Centro—Court House—Imperial Co., rein.-con. court house, general contract to Jarboe & Murray, El Centro, $123,000. Noted May 10.

Calif., Los Angeles—Apartment—A. B. Weber, 206 Wilshire Bldg., will build 4 story and basement, brick, 8th St. and Westlake Ave., by day labor. $150,000.

Calif., Los Angeles—Apartment and Store—A. Kaylor, 3 story, brick, Washington Blvd., to W. Riley, 3706 Whittier Blvd., to exceed $150,000.

Calif., Los Angeles—Store and Office—Sun Realty Exch., 5508 South Vermont St., 12 story and basement, rein.-con., Hill St. to J. V. McNeil & Co., I. W. Hellman Bldg. $500,000.

Calif., Sacramento — Hospital — Sisters Hospital, c/o R. A. Herold, archt., Forum Buildg., 5 story, rein.-con. and terra cotta, 40th and J Sts., general contract to W. C. Keating, Capitol Natl. Bank Bldg., $398,800 Noted May 10.

Buildings (Continued)

Calif., San Diego — Theatre, Office and Store—E. Hicks, et al., c/o W. H. Wheeler, archt., Spreckels Bldg., 5 story, rein.-con., E and 4th Sts., to Wurster Constr. Co., 746 Central Ave., Los Angeles, $500,000.

Ont., Hamilton—College—Bd. Educ., 2 story and basement, rein.-con. and steel, Main St. E., to W. H. Yates Constr. Co., Main St. E., $447,000.

Federal Government Work

PROPOSED WORK

Wis., Green Bay—Dredging—U. S. Engineer, Federal Bldg., Milwaukee, rejected bids dredging approximately 450,000 cu.yd., here. Noted June 7.

Mo., St. Louis—Dike—U. S. War Dept., Federal Bldg., Kansas City plans concrete and rubble dike at mouth of Missouri River, near here.

Calif., Presidio (San Francisco P. O.)—Water Softening Plant—Constructing Quartermaster, Ft. Mason, San Francisco, soon takes bids water softening plant, here.

BIDS DESIRED

N. Y., New York—Extension—July 5 by Treas. Dept., Wash., D. C., extension to delivery platform at U. S. Appraisers warehouse, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

N. Y., New York—Lighting System—Spec. 4862—June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., street lighting system at Naval Hospital, here.

Pa., Phila.—Engine Testing Laboratory—Spec. 4845—June 25 by Bureau Yards & Docks, Navy Dept., Wash., D. C., engine testing laboratory, here.

La., New Orleans—Dredging—July 19 at office U. S. Engineer, 329 Custom House, dredging Calcasieu-Sabine Sect. Intracostal Waterway; adv. this issue.

La., New Orleans—Wire, etc.—June 27 at U. S. Engineer Office, 12 tons black iron wire, 87,000 ft. galvanized wire, 5,000 lb. white zinc, 2,200 ft. round moulding, several hundred pounds bolts, nuts, etc.

Tenn., Memphis—Conveyor—July 10, at office Mississippi River Comn., 1st and 2nd Dists., 1006 McCall Bldg., belt conveyor; adv. this issue.

Tenn., Memphis—Tanks—July 19, at office District Engineer, Mississippi River Dredging Dist., P. O. Box 1017, 2 steel fuel oil storage tanks at U. S. Dredge Depot, here; adv. this issue. Noted Mar. 8.

Tex., Galveston—Dredging—July 20, at office U. S. Engineer, Galveston, dredging Houston Ship Channel; adv. this issue. Noted May 3.

H. T., Pearl Harbor—Extension—Spec. 4761—July 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extension for battery storage and overhaul, here.

BIDS RECEIVED

Va., Norfolk—Heating Mains—Spec. 4840—Bureau Yards & Docks, Navy Dept., Wash., D. C., heating mains at Navy Yard, here, from Newport Contg. & Eng. Co., Law Bldg., Newport News, (1) work complete $23,817 (2) alternate $17,857. Noted May 24.

Miss., Vicksburg—Levee Work—Third Mississippi River Dist., P. O. Box 404, Chicora enlargement in Arkansas, 100,000 cu. yd. excav., from Roach, Stansell, Lawrence Bros. Co., North Memphis Savings Bank Bldg., Memphis, Tenn., $0.847; Hagaman enlargement in Louisiana, 300,000 cu.yd., from Clark & Aderbolt, P. O. Box 287, Natchez, $0.287. Noted May 24.

Minn., St. Cloud—Hospital—Spec. 4828—Bureau Yards & Docks, Navy Dept., Wash., D. C., hospital group for U. S. Veterans' Hospital, here, from J. A. McDonald Constr. Co., 750 Builders Exch. Bldg., Minneapolis, Minn., $647,122. Noted May 31.

CONTRACTS AWARDED

Tenn., Nashville—Lumber—U. S. Engineer, Custom House, 365,000 ft. yellow pine timber for Lock and Dam 8 Cumberland River, to Great Southern Lumber Co., Bogalusa, La., $16,000.

Miscellaneous

PROPOSED WORK

Transmission Line—New York—Adirondack Power & Light Corp., 511 State St., Schenectady, plans 3 phase high tension transmission line through towns of North Greenbush, Stephantown, Nassau, Sand Lake, to link with New England Power Co. To exceed $50,000.

Bath House Improvements—Albany, N. Y.—Common Council plans improvements and repairs incl. filtration and circulation water systems for 3 bath houses. $50,000. J. G. Brennan, city engr.

Parks—Ithaca, N. Y.—R. W. Kellogg, 109 North Tioga St., representing owner, plans extensive improvements to Finger Lakes region parks, etc. $75,000.

Freight Shed—New York, N. Y.—J. H. Delaney, comr. Docks, Pier "A" foot of Battery Pl., rejected bids May 31, new freight shed on pier at foot of Roosevelt St., East River, Brooklyn Bridge Impvt., Manhattan Boro, Contr. 1809. Will readvertise. Noted June 7.

Rerouting Light and Power Lines, etc.—Oil City, Pa.—Citizens Light & Power Co., Chambers Bldg., plans rerouting light and power lines, and altering distribution system, $50,000. Day & Zimmermann, Inc., 611 Chestnut St., Phila., engrs.

Transmission Line—Kentucky—Kentucky Utilities Co., M. E. T. Bldg., Louisville, plans 20 mi. 33,000 volt transmission line from Richmond to Winchester. $60,000. G. T. Bogard, c/o owner, ch. engr.

Subway—Canton, O.—Stark Co. plans election in August to vote on $200,000 bonds subway at Stailcup Rd. and Pennsylvania R.R. City's share of cost $100,000.

Elimination of Grade Crossing—Cincinnati, O.—City and Baltimore & Ohio R.R., Central Union Depot, plan elimination of grade crossing on Paddock Rd. $500,000. City to pay one-third and railroad two-thirds of cost. F. Krug, city engr. S. A. Jordan, c/o railroad, engr. maintenance of way.

Grade Separation—Milwaukee, Wis.—Having preliminary plans prepared grade separation, excavation, concrete work, etc., on Forest Home, 15th and 11th Aves. J. Schwada, City Hall, engr.

Golf Links, etc.—Nakoma (Madison P. O.), **Wis.**—Nakoma Country Club making plans 18 hole golf course, tennis courts and clubhouse and locker rooms. $50,000. Private plans. C. A. Sakrison, pres.

Steam Heating Plant, etc.—Green Bay, Wis.—Christ Episcopal Congregation, c/o G. McMurray, pastor, Bellin Bldg., making plans steam heating plant, incl. boilers for parish hall and community building. $25,000. Oppenhamer & Obel, Green Bay, engrs.

Cattle Barn—Indianapolis, Ind.—Indiana Bd. of Agriculture having plans prepared by Kopf & Woolling, Pythian Bldg., 1 and 2 story, 210 x 670 ft. cattle barn, brick and steel, fair grounds. $300,000. Noted Jan. 19, 1922.

Elimination Grade Crossing—Iowa—See "Streets and Roads."

Grain Elevator, etc. — Pelican Rapids, Minn.—H. E. Frazee, having plans prepared grain elevator and feed mill, brick and concrete. $40,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, archts.

White Way—Corsicana, Tex.—Chamber of Commerce soon takes bids 102 standards for lights, cable, etc., for white way. $50,000. Southwest Eng. Co., Slaughter Bldg., Dallas, engrs. Noted Nov. 30.

Spillway, etc. — Ft. Worth, Tex. — City plans to raise spillway 5-6 ft. at Lake Worth Dam, also raise earth dam. $75,000. D. L. Lewis, city engr. J. B. Hawley, Cotton Exch., consult. engr.

Wharf and Grain Elevator—Portland, Ore.—Oregon, Washington Ry. and Navigation Co., Montgomery Ward Bldg., had plans prepared 137 x 360 ft. wharf at Albina Dock, covered shed 24 ft. high, 180 ft. double track trestle, 80 x 120 ft. open wharf, wheat elevator, 104 ft. high, capacity 310,000 bu., and 119 x 350 ft. warehouse. $220,000. S. Murray, Montgomery Ward Bldg., asst. ch. engr.

Park and Playground Improvements — Long Beach, Calif.—Plans to vote on $900,000 bonds for park and playground improvements.

Gas Distributing System, etc.—Los Angeles, Calif.—Los Angeles Gas & Electric Co., 645 South Hill St., plans additions and betterments to existing gas works $3,000,000; new gas distributing system $3,000,000; new generator plants $1,700,000; extensions to present electrical distributing system $1,100,000; miscellaneous improvements $700,000. W. Baurhyte, genl. mgr.

Playgrounds—Los Angeles, Calif.—Voted $1,500,000 bonds to acquire land and equipment for public playgrounds. Noted June 7.

Civic Center Improvements, etc.—Pasadena, Calif.—Voted $3,500,000 bonds for civic center improvements incl. parks and buildings, (library, city hall, and auditorium) considerable landscape work.

Transmission Line — Quebec — Northern Canada Power Co., Timmins, Ont., having surveys made 90 mi transmission line to Porcupine gold camp, Sutcliffe & Neekands, and Gordon Summers, New Liskeard, Ont., engrs. Noted May 17.

Power Development—Montreal, Que.—Southern Canada Power Co., 20 St. Nicholas St., plans developments, construction and equipment of Hemming Falls on St. Francis River, to develop 50,000 hp. I. C. Smith, c/o owner, engr.

Swimming Pool — Brentford, Ont. — City plans 150 x 300 ft. swimming pool, probably concrete. $35,000. F. P. Adams, city engr.

Power Development—Eugenia, Ont.—Ontario Hydro Comn., c/o A. Beck, chn., 169 Albert St., London, plans connecting Niagara with Eugenia plant, work involves increasing capacity of plant at Eugenia, constructing new pipe line, installing frequency changer and other equipment. $75,000.

Transmission Line—St. Thomas, Ont.—Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans 15 mi. power transmission line in district adjoining St. Thomas. $50,000. F. A. Gaby, c/o owner, ch. engr. Work will probably be done by day labor.

Gold Mine — South Porcupine, Ont. — Davidson Gold Mines, Ltd., King Edward Hotel Bldg., Toronto, plans extensive alterations and additions to gold mining mill, incl. new equipment, sinking shaft for depth of 1,000 ft., etc., here. $900,000. J. C. Platt, c/o owner, secy.

Retaining Wall — Toronto, Ont. — See "Streets and Roads."

BIDS DESIRED

Tower—Arlington (Boston P. O.), Mass.—June 28, by W. E. Foss, engr. and supt. Water Div., 1 Ashburton Pl., Boston, tower, 80 ft. high, 93 ft. diam. base, gray granite or Indiana limestone, rein.-con. and terra cotta, here. To exceed $50 000.

TUNNEL—NEW YORK

Bids were opened by Bd. of Estimate & Apportionment, Municipal Bldg., Richmond Boro., May 18, for constructing The Narrows Tunnel, Contr. No. 3, South Street Shaft. (A) P. McGovern, Inc., 50 East 42nd St., (awarded contract); (B) Booth & Flinn, Ltd., 17 Battery Pl. The unit bids were as follows:

	A	B
1200 cu.yd. earth excavation above mean sea level	40.00	20.35
2,600 cu.yd. earth excavation below mean sea level	40.00	26.25
8,530 cu.yd. rock excavation	39.00	42.45
9,000 cu.yd. dredging	0.60	1.50
3,600 cu.yd. concrete in caisson shaft, walls and floor, normal air	12.00	31.20
650 cu.yd. concrete in caisson shaft, floor, under compressed air	18.50	34.00
300 bbl. mortar batches used in placing concrete	8.00	7.00
70 cu.yd. brick masonry (except protective layer of brick in shaft invert)	40.00	50.00
700 bbl. 1:1 portland cement grout—normal air	6.00	5.00
10 bbl. 1:0 portland cement grout—normal air	5.65	6.00
10 bbl. 1:1 portland cement grout—under compressed air	7.35	8.00
10 bbl. 1:0 portland cement grou.—under compressed air	6.65	8.00
2,300 lin.ft. furnishing and driving timber piles for wharf	1.00	2.00
90 M.b.ft. timber wharf (except furnishing and driving piles)	135.00	175.00
380 sq.yd. waterproofing, treated woven fabric, normal air, four-ply	3.00	7.35
400 sq.yd. waterproofing, treated woven fabric, including brick, under compressed air, four-ply	6.20	16.50
10 sq.yd. waterproofing, treated woven fabric, including brick, under compressed air, six-ply	8.00	20.00
5 cu.yd. brick in asphalt mastic, with one-ply fabric, under compressed air	50.00	52.00
1,260 ton steelwork for shaft, except rods and bars	145.00	175.00
2 ton steel rods and bars	100.00	120.00
5,200 lb. furnishing and placing w. i. or steel pipe (threads, couplings and caps incl.)	0.20	0.10
5 ton furnishing and placing 12 in. c. i. pipe in bottom of shaft	180.00	150.00
Engineer's Field Office—building, equipping and maintaining (lump sum)	50,000.00	25,000.00
20 M.b.ft. temporary timber covering over shaft (incl. placing steel roof girders)	150.00	130.00
275 lin.ft. building a tight board fence around shaft, if required	3.00	2.75
50,000 cu.yd. disposal of ashes from municipal ferry boats	0.60	0.35
Extended totals	$841,957	$910,078

Miscellaneous (Continued)

Stone Crusher—Trenton, N. J.—July 3, by Bd. Freeholders, Mercer Co., Court House, stone crusher plant at Moore Sta. Former bids rejected. H. E. Breed, 507 5th Ave., New York City, consult. engr.; adv. this issue. Noted May 31.

Paving Brick — Ebensburg, Pa. — See "Streets and Roads."

Completion of Pier, etc.—Phila., Pa.—June 27, by G. F. Sproule, dir. Dept. Wharves, Docks and Ferries, Municipal Pier 4, South Wharves, completion, with appurtenant work for Porter St. Pier 84, South Wharves, Moyamensing Group, Delaware River; adv. this issue.

Fan Houses and Stacks—Pittsburgh, Pa.—June 27, by Comrs. Allegheny Co., 1 story, 110 x 190 ft. brick and rein.-con., fan houses and stacks for Liberty Tunnel. $183,000. A. D. Neeld, 708 Bakewell Bldg., engr.

Structural Steel Framing, etc.—New Orleans, La.—July 5, by Bd. Comrs. of Port of New Orleans, Suite 200 New Court Bldg., furnishing and erecting at Poland St. Landing (a) structural steel framing, (b) steel rolling doors. J. H. Walsh, genl. mgr.; adv. this issue.

Switchboard, etc.—Ellis Junction, Wis.—Wisconsin Pub. Serv. Co., 559 Marshall St., Milwaukee, and Mead & Seastone, engrs., Journal Bldg., Madison, taking bids switchboard, outdoor sub-station, structural steel, two 200 ft. penstocks, six 12 x 14 tainter gates, two 4 x 4 sluice gates.

Pig Lead—St. Paul, Minn.—June 25, by H. W. Austin, city purch. agt., 80 tons pig lead in 100 lb. pigs. C. M. Shepard, city engr.

Tunnel—Baird, Tex.—See "Waterworks."

Cable and Accessories—Melbourne, Australia—Aug. 31, by R. Liddelow, secy. State Electricity Comn. of Victoria, 22-32 William St., aluminum steel cored cable and accessories, Spec. 23/77, for Morwell Power Scheme; adv. this issue.

BIDS RECEIVED

Green Houses—New York, N. Y.—Dept. Parks, Municipal Bldg., completing range of greenhouses and workhouses in Van Cortlandt Park nurseries, Bronx Boro, from Hitchings & Co., 101 Park Ave., $39,500.

Paving Blocks—New York, N. Y.—Bd. Purch., Municipal Bldg., June 11, furnishing and delivering creosoted wood paving blocks, from W. J. Fitzgerald, 547 West 45th St., $22,565. Noted June 7.

CONTRACT AWARDED

Coal Trestle—East Hartford, Conn.—J. Hoffman & Son, 85 Connecticut Blvd., coal trestle, concrete, to South Contg. Co., G. Cudemo, 703 Main St., Hartford. Engrs. est. $30,000.

Heating and Ventilating Apparatus, etc.—Brooklyn, N. Y.—Bd. Educ., 500 Park Ave., New York, heating, ventilating and temperature regulation apparatus, in P. S. 16, Wilson St., here, to Federal Heating Co., 300 Madison Ave., New York, $26,700. Noted June 7.

Traffic Control System—Buffalo, N. Y.—Common Council and Bd. Pub. Wks., new traffic control system in Main St., to McCarthy Bros. & Ford, 75 West Mohawk St., $25,000.

Modification of Railroad Structure—New York—Transit Comn., 49 Lafayette St., New York City, modification of railroad structure east of Boulevard to allow raising street grade, Route 61, Boro of Queens, Agreement "CM," to Haume & Jackson, Inc., 1014 East 14th St., Brooklyn, $37,735. Noted June 14.

Car Barn—Louisville, Ky.—Louisville Ry. Co., 314 West Jefferson St., rebuilding 150 x 300 ft. street car barn, brick and concrete, and addition to car barn on 4th and Avery Sts., to L. W. Hancock, 14th and Walnut Sts. Engrs. est. $160,000. Noted Feb. 1.

Flour Mill Elevator—Hopkinsville, Ky.—Acme Mills, 38 x 96 ft. flour mill elevator, rein.-con., 125 ft. to top of pent house, 160,000 bu. capacity, Main St., to R. C. Stone Eng. Co., Merchants Exch., St. Louis, Mo. Est. cost $75,000.

Subways—Princeton, Ky.—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, 2 subways, here, to Ellington-Miller Co., 608 South Dearborn St., Chicago.

Foundation—Rochester, N. Y.—Bd. Dirs. and Building Com., University of Rochester, University Ave., foundation for school and hospital, 37 ft. concrete piles, to Raymond Concrete Pile Co., 140 Cedar St., New York City, $100,000. Noted Dec. 7 under "Buildings."

Asphalt Cement Emulsion — Trenton, N. J.—State Hy. Dept., supplying 131,300 gal. asphalt cement emulsion, to Barber Asphalt Co., 1900 Land Title Bldg., Phila., $21,150.

Basement—Milwaukee, Wis.—St. Catherines Congregation, c/o A. Reichard, secy., 82 Mason St., basement for 76 x 142 ft. and 58 x 88 ft., school and auditorium, brick and concrete, plain foundation, Center St., to E. Steigerwald & Sons, 2303 Galena St.

Lighting and Distribution System — Maquoketa, Ia.—Electric lighting and distribution system, to D. Chapin, Jr., Wichita, Kan., $27,840. Noted Apr. 5.

Foundation—Fargo, N. D.—St. John's Hospital, 365 6th Ave. S., foundation for 5 story and basement, 46 x 130 ft., rein.-con., brick, tile and stone hospital, to T. F. Power & Co., 419 8th St. N., on percentage basis. Total cost $225,000. Noted May 24 under "Buildings."

Dikes, etc.—Missouri—Bd. Pub. Wks., City Hall, St. Louis, eight 3 row hurdle dikes on St. Charles Co. side of river, one between Catfish Island and Meiers Bend and 6 on St. Louis Co. side of river, or as many as needed, also 2 story, frame office building at Howards Bend, on Missouri River, to Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, $570,007. Noted May 24.

Electric Transmission Line—Seneca, Mo.—N. S. Freeman, city clk., electric transmission line from here to Grand Falls, to Neben Bros. Electric Co., Muskogee, Okla., $22,000. Noted May 17.

Power Development—Quebec—Northern Canada Power Co., Timmins, Ont., power development on Quinze River at Ka-ka-ke Rapids, near Lake Teminskaming, general contract on unit basis for dam, power house, excavation, concrete work, etc., to Morrow & Beatty, Peterboro, Ont. Engrs. est. $3,000,000. Noted May 17.

Road Oil—Montreal, Que.—City, to Sun Oil Co., 1112 St. Patrick St., 40,000 gal. road oil at $0.099 per gal. plus 2½% tax, to Imperial Oil Co., St. Patrick St., 20,000 gal. road oil $0.09 per gal. plus 2½% tax, 120,000 gal. road oil applied, $0.1485 per gal. plus 2½% tax.

Stone Dust—Montreal, Que.—For 6,000 tons stone dust, to Deschambault Quarry Corp., 591 Amherst St., $52,300.

Oil Storage Plant—Owen Sound, Ont.—Imperial Oil Co., Ltd., Imperial Oil Bldg., Toronto, oil storage plant, incl. concrete and steel tanks, pumphouse, office, etc., here, to Schultz Bros., Brantford, $70,000. Noted Mar. 29.

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: July 10.

Street Paving

Nashville, Tenn.

Office of the Board of Public Works, Nashville, Tenn., June 15th, 1923.

Notice is hereby given that sealed proposals will be received at the office of the City Clerk until 10 o'clock a.m., Tuesday, July 10th, 1923, for constructing street paving on the following streets, to wit:

GRANITE BLOCK PAVEMENT
(RESURFACE)

Jefferson St., from 12th Ave. to 18th Ave.
Cedar St., from 4th Ave. to 10th Ave.

ASPHALTIC PAVEMENT
(RESURFACE)

Second Ave. South, from Hills Alley to Chestnut St.
Seventeenth Ave. South, from Division St. to Belcourt St.
Belcourt St., from 18th Ave. to 21st Ave.
Main St., from 1st St. to 11th St.
Forrest Ave., from Main St. to 11th St.
Gartland Ave., from 11th St. to 14th St.

ASPHALTIC PAVEMENT
(NEW GRADING AND PAVING)

Capers Ave., from 21st Ave. to 24th Ave.
Fifteenth Ave. North, from Buchanan St. to North Clay St.
North 15th St., from Ordway Place to Eastland Ave.

Approximately 17,000 square yards of Granite Block Paving, and 64,000 square yards of Asphaltic Paving (Resurface) and 11,000 square yards of Asphaltic Paving (New Grading and Paving) will be required. Separate proposals must be submitted for each street on blank forms accompanying specifications, which will be furnished by William W. Southgate, City Engineer, upon application. A charge of one dollar ($1.00) per copy will be made for each specification and proposal furnished. Proposals must be accompanied by a certified check payable to the order of the City of Nashville in an amount equivalent to ten per cent of the aggregate bid, or an approved bond in a penal sum of like amount with a solvent surety indemnity insurance company authorized to do business in the State of Tennessee. The said checks and bonds will be returned to unsuccessful bidders upon award of contract, and to successful bidders when they shall have entered into contract and made approved bond for the faithful performance of said contract as required by law. The right is reserved to reject any and all bids. By order of the Board of Public Works.

Attest: HILARY E. HOWSE, Mayor.
S. H. McKAY, City Clerk.

OFFICIAL PROPOSALS

Bids: June 30.

Building Alterations

Saratoga Springs, N. Y

Sealed proposals for the furnishing of all materials and performing the necessary labor for the proposed alterations and repairs to the kitchen, pantry and dining-room of the Casino in Congress Park at Saratoga Springs, N. Y., will be received by the Commissioner of Public Works of the City of Saratoga Springs, N. Y., at his office in the City Hall, on or before noon of the 30th day of June, 1923.

All proposals must be on forms annexed to the specifications to which they must be attached. All proposals must be accompanied by a certified check for 5% of the contract price.

The major portion of the work consists of the removal of a brick stack from the north side of the kitchen and the removal and rebuilding of a portion of the north wall of the kitchen; removal and rebuilding of the east wall of the dining-room and a portion of the north wall; the construction of a reinforced concrete foundation under the east, west and north walls of the dining-room; the construction of reinforced concrete foundations under the main bearing piers carrying the roof of the dining-room and the construction of a reinforced concrete foundation under the piers carrying the floor of the dining-room; repairing the outer and inner walls of the building where necessary, painting and kalsomining the interior of the dining-room and painting the exterior wood work; detaching and leveling and replacing the six circular windows; leveling and repairing the floor of the dining-room. Placing a Barrett Specification felt, pitch and slag roof on the three buildings together with the proper flashings, etc. Removing a switchboard panel from the basement to the pantry, rebuilding transformer house, etc.

Plans, Specifications and forms of contract and proposals can be obtained at the office of the Commissioner of Public Works between the hours of 9 a.m. and 5 p.m. except on Saturdays on which days the office will be open from 9 a.m. to 12 m.

Contractors must visit the site of the work and ascertain for themselves the exact character of the work required.

The City Council reserves the right to reject any and all bids if they deem it to the interest of the City so to do.

GEORGE W. AINSWORTH,
Commissioner of Public Works.

OFFICIAL PROPOSALS

Bids: July 17 (date extended).

Paving

Pottsville, Pa.

Sealed proposals will be received by the City Council of Pottsville, Pa., up to 7:30 o'clock p.m. Standard Time of Tuesday, July 17, 1923, for paving and improving portions of several streets of the City.

The work proposed consists of laying approximately thirty-five thousand (35,000) square yards of street paving on a concrete base with necessary grading, adjustment of curbs, etc.

Bidders may examine the plans and obtain a printed copy of the Specifications on application to the City Engineer and depositing five dollars ($5.00). The deposit will be returned on the return of the specifications in good condition with a bona fide proposal for the work contemplated.

The City Council reserves the right to reject any or all bids or parts of bids or to accept any bid considered the best for the City interests.

JOHN H. STRAUCH,
City Engineer.